SERVICE MANUAL

FISHER

FM STEREO/MW/LW RECEIVER WITH REM-910 WIRELESS REMOTE CONTROL

RS-910

(EUROPE)

132 346 41

SPECIFICATIONS

Remote Control (REM-910) ..... 37-function, wireless remote control

POWER AMPLIFIER SECTION

Minimum RMS sine wave power per channel within stated bandwidth at no more than stated
Distortion and with 8Ω load ..... 60W (DIN)
Total Harmonic Distortion 0.09%
I.M.Distortion 0.09%
Speaker Damping ..... >20

PREAMPLIFIER SECTION

Frequency Response
- Phono (RIAA) ..... ±2dB
- AUX (20Hz ~ 20kHz) ..... +0, −2dB

Input Sensitivity and Impedance
- Phono 2.5mV/50kΩ
- Tape Monitor 1,2 ..... 150mV/50kΩ
- AUX/VIDEO/CD 150mV/50kΩ

Phono Max. Input Capability 140mV
Multi Tone Control
- Super Bass ..... 63Hz ±10dB
- Bass ..... 250Hz ±10dB
- Middle ..... 1kHz ±10dB
- Treble ..... 4kHz ±10dB
- Super Treble ..... 16kHz ±10dB

Loudness Contour (100Hz/10kHz) ..... +8dB/+4dB
Hum and Noise (IHF Short Circuit, A Network)
- Phono 70dB
- Tape Monitor 1,2 ..... 80dB
- AUX/VIDEO/CD 80dB
- Source Direct (AUX) 80dB

FM SECTION

Usable Sensitivity
- Mono 1.0μV

46dB Quieting Sensitivity
- Mono 4.0μV

Signal-to-Noise Ratio
- Mono 70dB
- Stereo 63dB

Capture Ratio 2.0dB
Alt. Channel Selectivity(±300kHz) 55dB
Image Response Ratio 70dB
Spurious Response Ratio 95dB
IF Response Ratio ..... >90dB
AM Suppression Ratio 55dB
Total Harmonic Distortion at 60dBf
- Mono (1kHz) 0.2%
- Stereo (1kHz) 0.3%

Stereo Separation
(100Hz/1kHz/10kHz) 40/40/30dB

– Specifications and design are subject to change without notice. –

REFERENCE No. WM-570192

SPECIFICATIONS (Continued)

Sub-Carrier Rejection (19kHz/38kHz) 30/40dB
Audio Frequency Response
(20Hz ~ 15kHz) ..... ±3.0dB

MW SECTION

Usable Sensitivity 650μV/m
Selectivity (±9kHz) 40dB
Signal-to-Noise Ratio 55dB
Image Response Ratio 35dB
IF Response Ratio 65dB

LW SECTION

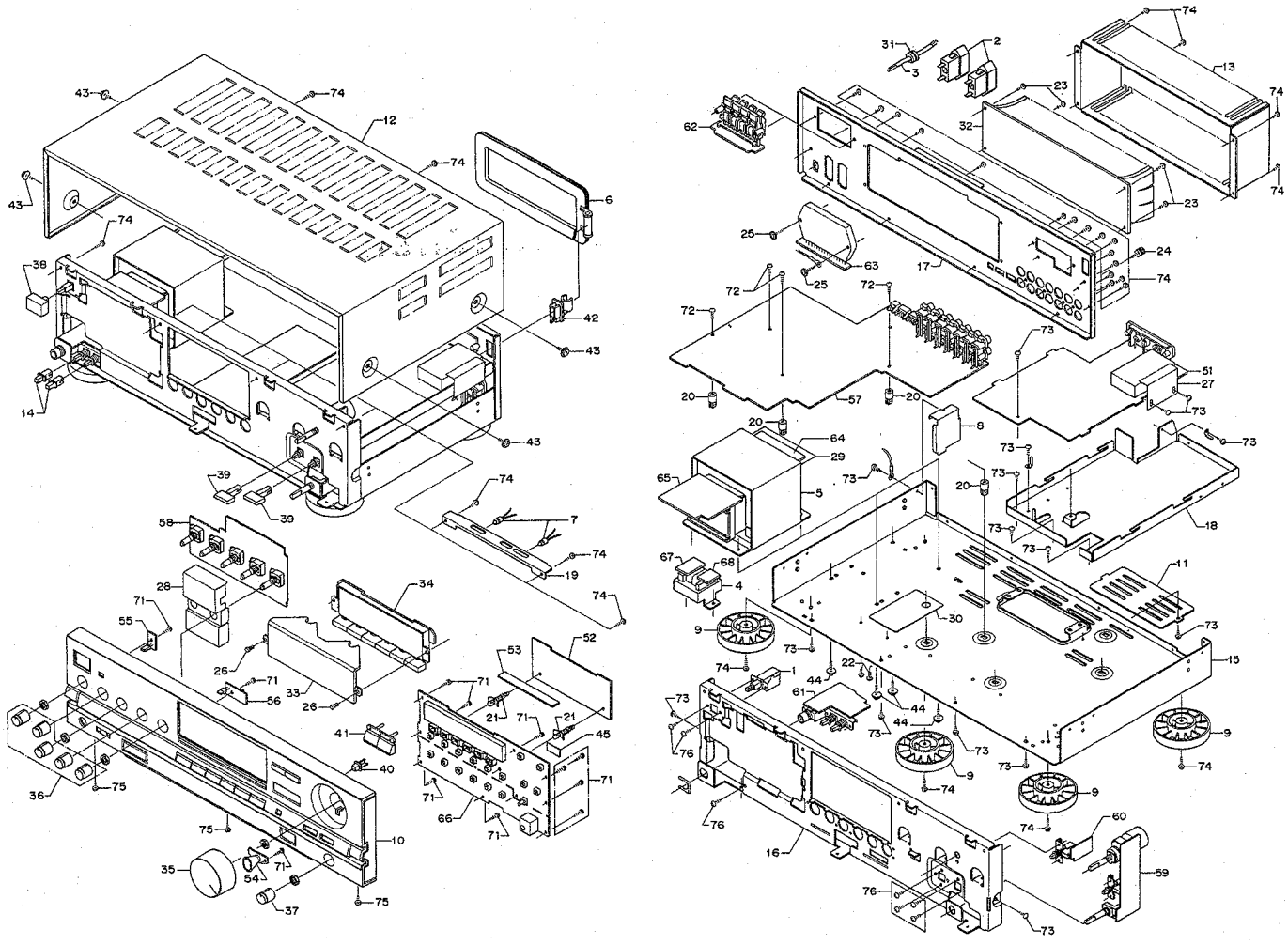
Usable Sensitivity 2000μV/m
Selectivity (±9kHz) 40dB
Signal-to-Noise Ratio 50dB
Image Response Ratio 45dB
IF Response Ratio 65dB

GENERAL

Power Requirements ..... AC 220V
(50Hz) ..... 300 Watts
AC Outlet 2
Dimensions (WxHxD) ..... 440 x 131.5 x 333mm
Weight (approx.) 7.8kg

– Specifications and design are subject to change without notice. –

CABINET & CHASSIS EXPLODED VIEW



CABINET & CHASSIS PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKAGE			
	620 000 0024	Bag Polyethylene	1
	620 193 2270	Box Corrugate-Exp.	1
	620 190 3256	Pad Left	1
	620 190 3263	Pad Right	1
	620 193 2287	Pad Rear	1
	620 059 6596	Patching Sheet	1
	620 062 2127	Rubber Band	1
	620 148 5639	Poly Cover (Loop Antenna)	1
	620 148 8012	Sheet Polyethylene	1
	620 152 7452	Serial No. Sheet	2
ACCESSORIES			
	620 193 4212	REM-910 (Remote Control)	1
	620 193 4427	Bag Fan Assy	1
	620 038 1673	FM Antenna Assy	1
	620 057 8783	Bag Fan	1
	620 062 0543	Serial No. Sheet	1
	620 112 8123	Holder Antenna	1
	620 152 2624	Certificate Card	1
	620 193 4748	Explanatory Booklet	1
CABINET			
	620 022 3461	Terminal Lug	2
	620 125 8424	Wire Band	20
	620 152 7452	Serial No. Sheet	1
C901	403 049 1609	ELECT 1U M 50V	1
C902	403 018 8509	CERAMIC 220P K 50V	1
1	⚠ 620 015 1634	Switch Push Power	1
2	⚠ 620 017 1212	AC Socket	2
3	⚠ 620 023 7550	Power Cord	1
4	⚠ 620 182 9778	Power Trans (Sub Trans)	1
5	⚠ 620 193 2201	Power Trans	1
6	620 028 2741	AM Loop Antenna	1
7	620 192 7870	Lamp	2
8	620 197 5772	Protector	1
9	620 185 2752	Leg Assy	4
10	620 193 2225	Panel Control Assy	1
11	620 045 6944	Cover Bottom	1
12	620 045 6982	Cover	1
13	620 193 2249	Cover Heat Sink	1
14	620 046 2716	Knob (Speaker)	2
15	620 048 7450	Chassis	1
16	620 189 9757	Panel Front	1
17	620 193 2256	Panel Rear	1
18	620 189 9801	Chassis Sub	1
19	620 050 1491	Metal Mount Lamp	1
20	620 050 4225	Mount P.C.B.	4
21	620 190 5694	Mount P.C.B.	2
22	620 051 1735	Screw 3.0X8 Z	2
23	620 051 1803	Screw 3.0X10 B	4
24	620 051 2152	Screw Ground	1
25	620 051 3715	SCR TPG BRZ +M3.0X14	2
26	620 191 2746	Rivet 3.5	2
27	620 190 0736	Cover Shield	1
28	620 190 6448	Cover Shield EQ	1
29	620 193 0009	Plate Sever	1
30	620 193 0016	Plate Sever	1
31	620 053 2136	Bushing (MP4N-4)	1
32	620 193 2263	Plate Heat Sink	1
33	620 186 9378	Filter	1
34	620 190 5717	Mount Screen Assy	1
35	620 186 6711	Knob Volume Assy	1
36	620 189 1195	Knob Volume (Graphic EQ)	5
37	620 189 1201	Knob Volume (Balance)	1
38	620 186 4014	Knob (Power)	1
39	620 185 3216	Knob Push (Mono/Loudness)	2
40	620 185 3728	Knob Tact (Auto/Manual)	1
41	620 193 2485	Knob Band (Band Select)	1
42	620 122 2210	Holder Antenna	1
43	620 123 0284	SCR TPG BIN +M4.0X8	4
44	620 123 0833	SCR Bind TAP-B +M4X10	4
45	620 123 7658	Sheet	1
51	620 193 2836	Tuner P.C.B. Assy	1
52	620 193 2843	Synthesizer P.C.B. Assy	1
53	620 190 9371	Jumper P.C.B. Assy	1
54	620 190 9395	VR LED P.C.B. Assy	1
55	620 190 9401	Power IND P.C.B. Assy	1
56	620 190 9418	S/D SW,LED P.C.B. Assy	1
57	620 193 1600	Main P.C.B. Assy	1
58	620 191 0025	G-EQ P.C.B. Assy	1
59	620 191 0032	VR P.C.B. Assy	1
60	620 191 0049	Mode SW. P.C.B. Assy	1
61	620 193 1617	SP. SW. P.C.B. Assy	1
62	620 193 1624	SP. Out P.C.B. Assy	1
63	620 192 2288	Power IC P.C.B. Assy	1
64	620 193 2904	Terminal P.C.B. Assy	1
65	620 193 2447	Fuse P.C.B. Assy	1
66	620 195 3824	Switch Display P.C.B. Assy	1
67	620 192 2707	Sub AC In P.C.B	1
68	620 192 2714	Sub AC 2nd P.C.B	1
71	411 020 5706	SCR S-TPG BRZ 2.6X8	12
72	411 020 5904	SCR S-TPG BRZ 3X10	4
73	411 020 7700	SCR S-TPG BRZ 3X6	16
74	411 099 9803	SCR S-TPG BRZ 3X8	31
75	411 021 5903	SCR S-TPG BIN 3X6	3
76	411 002 8503	SCR PAN 3X6	7

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CAUTION ON RF ADJUSTMENT

This model uses a microprocessor for memory preset control for the various bands.
This function has been used to preset frequency points for the different bands to permit adjustment and make it possible to check the function of the microprocessor. To use this supplemental function, ground initialize the lead of R118 on the Synthesizer P.C.Board for 1 second before beginning adjustment. The following table shows the initially preset frequencies.

Band	Memory					
	1	2	3	4	5	6
FM-1	87.5MHz	108MHz	88MHz	98MHz	108Hz	90MHz
MW/LW	603kHz	1404kHz	999kHz	160kHz	350kHz	250kHz

FM TUNER ALIGNMENT

FM ALIGNMENT – Band Selector switch to FM/ST(MUTE) position.
Note is almost unnecessary to adjust coil in Front End as perfectly adjusted.

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. FM IF S-CURVE ALIGNMENT	Connect 10.7MHz Radio IF Genescope output to Pin IF (Front End) and ground lead to chassis. Use 5pF capacitor in series with generator output lead.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP209 and ground lead to chassis.	Adjust FM DET 1 Coil (T207) and FM DET 2 (T206) so that S-wave from becomes symmetrical.
2. DETECTOR ADJUSTMENT (MINIMUM T.H.D.)	Connect FM RF signal generator through FM Dummy Antenna to FM Antenna terminals. Set generator to 98MHz ±2kHz. Modulate with 1kHz to provide ±40kHz deviation. Setting generator with attenuator output level for 60dBμV.	Set MODE switch to FM MONO position and Preset STATION button to "4" posion. Set to 98MHz.	Connect DC Voltmeter across TP206 and TP208.	Adjust FM DET 1 Coil (T207) until DC Voltmeter reads 0V ±50mV.
			Connect Harmonic Distortion Analyzer to REC OUT.	Adjust FM DET 2 Coil (T206) for minimum gain and best linearity.
Note: Repeat Step 1 (FM DET 1 Coil T207) and 2 (FM DET 2 Coil T206) until optimum alignment is reached.				
3. FM STEREO SIGNAL SEPARATION CONTROL	Connect FM Stereo SG to FM Antenna terminals. 19kHz signal ON. Main channel, sub channel signal ON. Apply 1000Hz signal from LEFT channel.	Same as above. Set Mode switch to ST(MUTE) position.	Connect AC VTVM and Oscilloscope to REC OUT.	Adjust VR203 for minimum output.
	Same as above for RIGHT channel.		Connect AC VTVM and Oscilloscope to REC OUT.	
4. FM MUTING AUTO STOP SENSITIVITY ADJUSTMENT	Set generator to 98MHz. Adjust attenuator output level to 16dBμV.	Same as above.	Front panel TUNED Indicator Display.	Set Mode Switch to ST(MUTE). Adjust VR202 until the TUNED Indicator partly light up.
Note: Decrease the output level of ATT and confirm that the wave form disappears. Increase the output level of ATT again and confirm that the input level meets the specifications sufficiently when the wave form has appeared.				

Use a screwdriver with plastic grip for all adjustments.

MW Frequency Cover Range
Tuning Voltage Value at TP 202

(Table 1)

	522kHz	1611kHz
Minimum	0.9V	7.0V
Typical	1.0V	8.0V
Maximum	1.3V	9.0V

LW Frequency Cover Range
Tuning Voltage Value at TP 202

(Table 2)

	153kHz	360kHz
Minimum	1.0V	7.0V
Typical	1.0V	7.5V
Maximum	1.8V	9.0V

AM TUNER ALIGNMENT

AM ALIGNMENT – Band Selector switch to MW or LW position.
Maintain generator output as low as possible for suitable indication.

Note: Perform this alignment after FM Tuner Alignment.

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. AM IF ALIGNMENT	Connect 450kHz Radio IF Genescope output to Pin TP1 and TP2 Adjust output level to 70dBμV.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP205 and ground lead to chassis.	Adjust AM IFT (T205) for maximum gain and best symmetry. Keep signal low enough for noise on response.
2. MW RF FREQUENCY COVER ALIGNMENT (1611kHz)	Do not connect generator.	Front Panel DIGITAL Counter Display Set to 1611kHz.	Connect DC Voltmeter to TP202 and ground lead to chassis.	Check DC Voltmeter for Indication 7.0V ~ 9.0V.
3. (522kHz)	Same as above.	DIGITAL Counter Display Set to 522kHz.	Same as above.	Check DC Voltmeter for Indication 0.9V ~ 1.3V.
Note: Repeat the adjustments in items 2 and 3. Then, confirm that each voltage becomes 1.0V to 8.0V at receiving frequency of 522kHz to 1611kHz. **(See Table 1)**				
4. LW RF FREQUENCY COVER ALIGNMENT (360kHz)	Do not connect generator.	Front Panel DIGITAL Counter Display Set to 360kHz.	Connect DC Voltmeter to TP202 and ground lead to chassis.	Check DC Voltmeter for Indication 7.0V ~ 9.0V.
5. (153kHz)	Same as above.	DIGITAL Counter Display Set to 153kHz.	Same as above.	Check DC Voltmeter for Indication 1.0V ~ 1.8V.
Note: Repeat the adjustments in Items 4 and 5. Then, confirm that each voltage becames 1.0V to 7.5V at receiving frequency of 153kHz to 360kHz. **(See Table 2)**				
6. MW RF TRACKING ALIGNMENT (603kHz)	Connect Standard Loop Antenna to output terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop antenna (Unit). Generator Setting to 603kHz or 1404kHz. Modulate with 400Hz (30 % modulation).	Set Preset STATION button to "1" position. Set to 603kHz.	Connect AC VTVM and Oscilloscope to REC OUT.	Adjust MW ANT Coil (T201) for maximum gain output.
7. (1404kHz)		Change Preset STATION button to "2" position. Set to 1404kHz.	Same as above.	Adjust MW ANT Trimmer (TC201) for maximum gain output.
Note: Repeat the adjustments in Items 6 and 7. Then, confirm there is no tracking error.				
8. LW RF TRACKING ALIGNMENT (160kHz)	Change generator setting to 160kHz.	Set Preset STATION button to "4" position. Set to 160kHz.	Connect AC VTVM and Oscilloscope to REC OUT.	Adjust LW ANT Coil (T202) for maximum gain output.
9. (350kHz)	Change generator setting to 350kHz.	Change Preset STATION button to "5" position. Set to 350kHz.	Same as above.	Adjust LW ANT Trimmer (TC202) for maximum gain output.
Note: Repeat the adjustments in Items 8 and 9. Then, confirm there is no tracking error.				
10. AM AUTO STOP SENSITIVITY ADJUSTMENT	Change generator setting to 999kHz and output level to 60dBμV/m.	Set Preset STATION button to "3" position. Set to 999kHz.	Front Panel TUNED Indicator Display.	Adjust VR201 until the Indicator partly light up.

Use a screwdriver with plastic grip for all adjustments.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
TUNER P.C.B. ASSY			
51	620 193 2836	Tuner P.C.B. Assy	1
	620 191 8632	FM Front End 4EU AGC	1
		(Component parts used in Front End are not serviceable and available.)	
	620 022 2921	ANT Terminal 3P	1
	411 020 8004	SCR S-TPG BRZ 3X8	1
	620 031 4763	Wire Wrap Terminal	10
	620 052 9297	Cover Shield	1
	620 053 8848	Plate Heat Sink	1
CF201	620 014 5664	Ceramic Filter	1
CF202	620 014 5664	Ceramic Filter	1
CF204	620 014 6258	Ceramic OSC	1
CF205	620 014 5862	Ceramic Filter 450kHz	1
CN201	620 021 6203	Connector 5P	1
CN202	620 021 6227	Connector 10P	1
CN203	620 182 8955	Plug 3P	1
CN204	620 182 8993	Plug 4P	1
F201	620 191 6607	FTZ Antenna Filter	1
ICP201	620 017 0734	Protector ICP-5	1
L201	620 026 5522	Choke Coil 470UH	1
L203	620 026 8103	Choke Coil 470UH	1
L204	620 026 8103	Choke Coil 470UH	1
TC201	620 007 0867	Trimmer 10PF	1
TC202	620 189 9108	Trimmer 20PF	1
T201	620 185 9041	MW Antenna Coil	1
T202	620 028 1362	LW Antenna Coil	1
T203	620 185 9058	OSC Coil MW	1
T204	620 028 7845	OSC Coil LW	1
T205	620 190 9227	IFT AM	1
T206	620 189 6015	IFT DET 10.7MHz 2nd K	1
T207	620 189 6008	IFT DET 10.7MHz 1st K	1
T208	620 026 4396	Anti Birdie Filter	1
T209	620 026 4518	LP Filter	1
T210	620 026 4518	LP Filter	1
VR201	620 006 1377	Potentiometer 10KB	1
VR202	620 006 1353	Potentiometer 100KB	1
VR203	620 006 1353	Potentiometer 100KB	1
X201	620 007 1338	Crystal 7.2MHz	1
or	620 007 3226	Crystal 7.2MHz	1
IC201	409 073 9505	IC LA1266	1
IC202	409 017 0803	IC LA3400	1
IC203	409 025 7306	IC LM7000	1
IC204	409 074 0808	IC LA5667	1
		If necessary, replace both Diode D201, D203 (SVC321) together with new ones which have the equivalent characteristics.	
D201	407 000 4807	VARACTOR DI SVC321D-2	1
or	407 000 4708	VARACTOR DI SVC321C-2	1
D203	407 000 4807	VARACTOR DI SVC321D-2	1
or	407 000 4708	VARACTOR DI SVC321C-2	1
D204	407 008 0405	DIODE GMB01-BT	1
D205	407 008 0405	DIODE GMB01-BT	1
D206	407 008 0405	DIODE GMB01-BT	1
D207	407 008 0405	DIODE GMB01-BT	1
D208	407 008 0405	DIODE GMB01-BT	1
D209	407 049 6008	ZENER DIODE GZA11Y-BT	1
D210	407 008 0405	DIODE GMB01-BT	1
Q201	405 016 0806	TR 2SC2839-E	1
Q202	405 027 0505	TR 2SK246-GR	1
Q203	405 021 0105	TR 2SD1012-F	1
or	405 021 0501	TR 2SD1012-G	1
Q204	405 021 0501	TR 2SD1012-G	1
Q205	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q206	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q207	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q210	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q211	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q212	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q213	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q214	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q215	405 019 3804	TR 2SC536-G-NP	1
or	405 019 2708	TR 2SC536-F-NP	1
Q216	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q217	405 004 5004	TR 2SA608-G-NP	1
or	405 004 4502	TR 2SA608-F-NP	1
Q218	405 027 8402	TR 2SK583	1
or	405 038 3809	TR 2SK669	1
Q219	405 027 8402	TR 2SK583	1
C202	403 043 4903	ELECT 33U M 16V	1
C203	403 069 8404	CERAMIC 0.01U Z 50V	1
C204	403 069 8404	CERAMIC 0.01U Z 50V	1
C205	403 071 0601	CERAMIC 0.015U Z 50V	1
C206	403 074 2701	CERAMIC 0.047U Z 50V	1
C208	403 026 5408	CERAMIC 47P K 50V	1
C209	403 074 2701	CERAMIC 0.047U Z 50V	1
C210	403 074 2701	CERAMIC 0.047U Z 50V	1
C211	403 050 1209	ELECT 2.2U M 50V	1
C212	403 031 0306	CERAMIC 68P K 50V	1
C213	403 018 4204	CERAMIC 22P K 50V	1
C214	403 074 2701	CERAMIC 0.047U Z 50V	1
C215	403 074 2701	CERAMIC 0.047U Z 50V	1
C216	403 088 1707	STYRENE 340P J 50V	1
C217	403 042 0302	ELECT 10U M 16V	1
C218	403 038 2303	ELECT 100U M 6.3V	1
C219	403 069 8404	CERAMIC 0.01U Z 50V	1
C220	403 042 0302	ELECT 10U M 16V	1
C221	403 028 8001	CERAMIC 56P K 50V	1
C222	403 047 1502	ELECT 4.7U M 25V	1
C223	403 050 7706	ELECT 3.3U M 50V	1
C224	403 047 1502	ELECT 4.7U M 25V	1
C225	403 069 8404	CERAMIC 0.01U Z 50V	1
C226	403 049 1609	ELECT 1U M 50V	1
C227	403 069 8404	CERAMIC 0.01U Z 50V	1
C228	403 060 8403	POLYESTER 0.033U K 50V	1
C229	403 074 2701	CERAMIC 0.047U Z 50V	1
C230	403 074 2701	CERAMIC 0.047U Z 50V	1
C231	403 074 2701	CERAMIC 0.047U Z 50V	1
C232	403 075 4308	CERAMIC 820P K 50V	1
C233	403 043 7003	ELECT 330U M 16V	1
C234	403 069 8404	CERAMIC 0.01U Z 50V	1
C235	403 069 8404	CERAMIC 0.01U Z 50V	1
C236	403 069 0705	CERAMIC 1000P K 50V	1
C237	403 049 1609	ELECT 1U M 50V	1
C238	403 039 2906	ELECT 47U M 6.3V	1
C239	403 069 8404	CERAMIC 0.01U Z 50V	1
C240	403 042 3501	ELECT 100U M 16V	1
C241	403 049 1609	ELECT 1U M 50V	1
C242	403 048 7602	ELECT 0.47U M 50V	1
C243	403 050 1209	ELECT 2.2U M 50V	1
C244	403 069 8404	CERAMIC 0.01U Z 50V	1
C245	403 075 0508	CERAMIC 6800P K 50V	1
C246	403 073 3006	CERAMIC 390P K 50V	1
C247	403 073 8407	CERAMIC 4700P K 50V	1
C248	403 062 0504	POLYESTER 0.047U K 50V	1
C249	403 069 0705	CERAMIC 1000P K 50V	1
C250	403 042 0302	ELECT 10U M 16V	1
C251	403 073 3006	CERAMIC 390P K 50V	1
C252	403 073 3006	CERAMIC 390P K 50V	1
C253	403 042 0302	ELECT 10U M 16V	1
C254	403 042 0302	ELECT 10U M 16V	1
C255	403 072 5407	CERAMIC 2700P K 50V	1
C256	403 072 5407	CERAMIC 2700P K 50V	1
C257	403 042 0302	ELECT 10U M 16V	1
C258	403 040 2704	ELECT 22U M 10V	1
C259	403 049 1609	ELECT 1U M 50V	1
C260	403 045 7100	ELECT 22U M 25V	1
C261	403 074 2701	CERAMIC 0.047U Z 50V	1
C262	403 040 2704	ELECT 22U M 10V	1
C263	403 072 7906	CERAMIC 330P K 50V	1
C264	403 069 0705	CERAMIC 1000P K 50V	1
C265	403 022 5907	CERAMIC 33P J 50V	1
C266	403 023 9607	CERAMIC 39P J 50V	1
C267	403 049 1609	ELECT 1U M 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description		Q'ty
C268	403 049 1609	ELECT	1U M 50V	1
C269	403 047 9607	ELECT	0.1U M 50V	1
C270	403 044 0201	ELECT	47U M 16V	1
C272	403 088 4104	STYRENE	430P J 50V	1
C273	403 050 1209	ELECT	2.2U M 50V	1
C274	403 009 8105	CERAMIC	100P K 50V	1
R202	401 016 3809	CARBON	2.2K JA 1/4W	1
R203	401 012 4107	CARBON	100 JA 1/4W	1
R204	401 012 4107	CARBON	100 JA 1/4W	1
R205	401 027 9005	CARBON	82K JA 1/6W	1
R206	401 027 0309	CARBON	47K JA 1/6W	1
R207	401 025 7805	CARBON	2.2K JA 1/6W	1
R208	401 026 6609	CARBON	390 JA 1/6W	1
R209	401 027 8305	CARBON	820 JA 1/6W	1
R210	401 026 6609	CARBON	390 JA 1/6W	1
R211	401 024 7004	CARBON	1K JA 1/6W	1
R212	401 024 8001	CARBON	1M JA 1/6W	1
R213	401 026 6609	CARBON	390 JA 1/6W	1
R214	401 026 1000	CARBON	2.7K JA 1/6W	1
R215	401 012 4503	CARBON	100 JA 1/4W	1
R216	401 012 5708	CARBON	1K JA 1/4W	1
R217	401 024 8001	CARBON	1M JA 1/6W	1
R218	401 026 4308	CARBON	3.3K JA 1/6W	1
R219	401 025 8208	CARBON	22K JA 1/6W	1
R220	401 026 7408	CARBON	39K JA 1/6W	1
R221	401 027 9005	CARBON	82K JA 1/6W	1
R223	401 025 8208	CARBON	22K JA 1/6W	1
R224	401 024 7707	CARBON	100K JA 1/6W	1
R225	401 024 7707	CARBON	100K JA 1/6W	1
R226	401 026 9907	CARBON	4.7K JA 1/6W	1
R227	401 025 1902	CARBON	15K JA 1/6W	1
R228	401 027 2600	CARBON	5.6K JA 1/6W	1
R229	401 026 9907	CARBON	4.7K JA 1/6W	1
R230	401 025 1902	CARBON	15K JA 1/6W	1
R231	401 026 4308	CARBON	3.3K JA 1/6W	1
R232	401 025 7805	CARBON	2.2K JA 1/6W	1
R233	401 020 0801	CARBON	470 JA 1/4W	1
R234	401 027 2303	CARBON	560 JA 1/6W	1
R235	401 027 2303	CARBON	560 JA 1/6W	1
R236	402 015 4705	FUSIBLE RES	47 J- 1/4W	1
R237	401 025 8208	CARBON	22K JA 1/6W	1
R238	401 024 7707	CARBON	100K JA 1/6W	1
R239	401 026 7408	CARBON	39K JA 1/6W	1
R240	401 025 2305	CARBON	150K JA 1/6W	1
R242	401 025 8208	CARBON	22K JA 1/6W	1
R248	401 017 1804	CARBON	2.7K JA 1/4W	1
R249	401 016 4806	CARBON	22K JA 1/4W	1
R250	401 027 0309	CARBON	47K JA 1/6W	1
R251	401 024 7707	CARBON	100K JA 1/6W	1
R252	401 026 9907	CARBON	4.7K JA 1/6W	1
R253	401 025 8208	CARBON	22K JA 1/6W	1
R254	401 026 4308	CARBON	3.3K JA 1/6W	1
R255	401 022 3107	CARBON	6.8K JA 1/4W	1
R256	401 025 8208	CARBON	22K JA 1/6W	1
R257	401 026 1604	CARBON	270K JA 1/6W	1
R258	401 024 7400	CARBON	10K JA 1/6W	1
R259	401 012 4107	CARBON	100 JA 1/4W	1
R260	401 024 7004	CARBON	1K JA 1/6W	1
R261	401 025 8208	CARBON	22K JA 1/6W	1
R262	401 025 2305	CARBON	150K JA 1/6W	1
R263	401 026 4308	CARBON	3.3K JA 1/6W	1
R264	401 024 7400	CARBON	10K JA 1/6W	1
R265	401 026 4308	CARBON	3.3K JA 1/6W	1
R266	401 024 7400	CARBON	10K JA 1/6W	1
R267	401 025 3500	CARBON	160K JA 1/6W	1
R268	401 025 3500	CARBON	160K JA 1/6W	1
R269	401 025 7805	CARBON	2.2K JA 1/6W	1
R270	401 025 7805	CARBON	2.2K JA 1/6W	1
R271	401 026 9907	CARBON	4.7K JA 1/6W	1
R272	401 026 9907	CARBON	4.7K JA 1/6W	1
R273	401 024 7004	CARBON	1K JA 1/6W	1
R274	401 024 7004	CARBON	1K JA 1/6W	1
R275	401 018 3807	CARBON	3.3K JA 1/4W	1
R276	401 018 3807	CARBON	3.3K JA 1/4W	1
R277	401 025 7805	CARBON	2.2K JA 1/6W	1
R278	401 018 4903	CARBON	33K JA 1/4W	1
R279	401 018 4903	CARBON	33K JA 1/4W	1
R280	401 024 7400	CARBON	10K JA 1/6W	1
R281	401 012 8105	CARBON	100K JA 1/4W	1
R282	401 016 1102	CARBON	22 JA 1/4W	1
R283	401 012 5708	CARBON	1K JA 1/4W	1
R284	401 012 5708	CARBON	1K JA 1/4W	1
R285	401 026 9907	CARBON	4.7K JA 1/6W	1
R286	401 026 4308	CARBON	3.3K JA 1/6W	1
R287	401 027 2600	CARBON	5.6K JA 1/6W	1
R288	401 024 7400	CARBON	10K JA 1/6W	1
R289	401 012 5708	CARBON	1K JA 1/4W	1
R290	401 025 8208	CARBON	22K JA 1/6W	1
R291	401 025 8208	CARBON	22K JA 1/6W	1
R292	401 026 1604	CARBON	270K JA 1/6W	1
R293	401 026 1604	CARBON	270K JA 1/6W	1
R294	401 024 7707	CARBON	100K JA 1/6W	1
R295	401 027 2600	CARBON	5.6K JA 1/6W	1
R296	401 024 7400	CARBON	10K JA 1/6W	1
R398	401 025 8208	CARBON	22K JA 1/6W	1
SYNTHESIZER P.C.B. ASSY				
52	620 193 2843	Synthesizer P.C.B. Assy		1
CF101	620 190 9029	Ceramic OSC		1
CN201	620 193 2737	Connector 5P Assy		1
CN202	620 190 9111	Connector 10P Assy		1
IC101	410 055 0700	IC TSE1039AN-012		1
D114	407 008 0405	DIODE GMB01-BT		1
D115	407 050 6202	ZENER DIODE GZA6.2Y-BT		1
D119	407 005 3805	DIODE DS442-BT		1
D121	407 008 0405	DIODE GMB01-BT		1
D124	407 005 3805	DIODE DS442		1
C101	403 041 3304	ELECT	47U M 10V	1
C103	404 039 4303	ELECT	2200U M 10V	1
or	404 032 2207	ELECT	2200U M 10V	1
C104	403 022 5907	CERAMIC	33P J 50V	1
C105	403 022 5907	CERAMIC	33P J 50V	1
C106	403 050 1605	ELECT	2.2U M 50V	1
C109	403 052 6905	ELECT	10U M 35V	1
C111	403 074 2701	CERAMIC	0.047U Z 50V	1
R107	401 024 7400	CARBON	10K JA 1/6W	1
R108	401 024 7400	CARBON	10K JA 1/6W	1
R109	401 024 7400	CARBON	10K JA 1/6W	1
R110	401 024 7400	CARBON	10K JA 1/6W	1
R111	401 016 4806	CARBON	22K JA 1/4W	1
R112	401 020 2904	CARBON	47K JA 1/4W	1
R113	401 012 7009	CARBON	10K JA 1/4W	1
R114	401 012 7009	CARBON	10K JA 1/4W	1
R115	401 012 7009	CARBON	10K JA 1/4W	1
R116	401 022 0809	CARBON	68 JA 1/4W	1
R117	401 022 0809	CARBON	68 JA 1/4W	1
R118	401 026 3905	CARBON	330 JA 1/6W	1
JUMPER P.C.B. ASSY				
53	620 190 9371	Jumper P.C.B. Assy		1
VR LED P.C.B. ASSY				
54	620 190 9395	VR LED P.C.B. Assy		1
	620 185 2820	Reflector		1
D156	407 062 7204	LED SEL2213C		1
POWER IND P.C.B. ASSY				
55	620 190 9401	Power IND P.C.B. Assy		1
D155	407 109 1301	LED SEL1122P		1
S/D SW,LED P.C.B. ASSY				
56	620 190 9418	S/D SW,LED P.C.B. Assy		1
	620 016 7796	Tact Switch		1
D157	407 016 5409	LED LN324GP		1
MAIN P.C.B. ASSY				
57	620 193 1600	Main P.C.B. Assy		1
	620 017 0406	Relay		1
	620 017 0413	Relay		1
	620 017 2738	Fuse Clip		2
	620 188 9925	Pin Jack 4P Black		2
	620 188 9932	Pin Jack 6P Black		1
	620 021 6548	Plug 2P		1
	620 021 6555	Plug 4P		2
	⚠ 423 006 4702	FUSE	250V T2.5A	1
	411 020 8004	SCR S-TPG BRZ 3X8		1
	620 031 4763	Wire Wrap Terminal		9
	620 053 7025	Cover Safety		1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
	620 053 7247	Plate Heat Sink	1
	620 055 1045	Label Fuse	1
CA403	620 191 1756	Connector 3P Assy	1
CA404	620 190 9098	Connector 4P Assy	1
CF401	620 007 3349	Ceramic.OSC CSA4.00	1
CN401	620 021 8146	Plug 8P	1
CN402	620 021 8139	Plug 9P	1
CN405	620 182 9006	Plug 5P	1
CN406	620 182 8955	Plug 3P	1
PC401	620 191 1800	Flat Wire 3-220	1
PC402	620 191 1817	Flat Wire 7-220	1
PC403	620 191 1824	Flat Wire 2-280	1
PC404	620 191 1824	Flat Wire 2-280	1
RB401	620 004 5575	Resistor 4X100K J	1
RB402	620 004 5612	Resistor 11X10K J	1
RB403	620 004 5551	Resistor 10K-3 J	1
RB404	620 004 5674	Resistor 12X10K	1
W401	620 020 5887	Connector 1P Assy	1
IC401	409 057 4403	IC UPC4570C	1
IC402	409 109 5105	IC LC7821	1
IC403	409 018 4503	IC LA6458DS	1
IC404	409 166 5308	IC TC9215P	1
IC405	409 018 4503	IC LA6458DS	1
IC407	409 162 2301	IC LC6522H-3794	1
IC408	409 114 4803	IC LB1641	1
D401	407 008 0405	DIODE GMB01-BT	1
D402	407 008 0405	DIODE GMB01-BT	1
D403	407 008 0405	DIODE GMB01-BT	1
D404	407 008 0405	DIODE GMB01-BT	1
D405	407 008 0405	DIODE GMB01-BT	1
D406	407 008 0405	DIODE GMB01-BT	1
D407	407 008 0405	DIODE GMB01-BT	1
D408	407 008 0405	DIODE GMB01-BT	1
D411	407 008 0405	DIODE GMB01-BT	1
D412	407 008 0405	DIODE GMB01-BT	1
D413	407 008 0405	DIODE GMB01-BT	1
D414	407 008 0405	DIODE GMB01-BT	1
D415	407 092 3900	DIODE DSB15TC-KC5	1
D416	407 092 3900	DIODE DSB15TC-KC5	1
D417	407 092 3900	DIODE DSB15TC-KC5	1
D418	407 092 3900	DIODE DSB15TC-KC5	1
D419	407 004 9105	DIODE DSF10C-BT	1
D420	407 004 9105	DIODE DSF10C-BT	1
D421	407 004 9105	DIODE DSF10C-BT	1
D422	407 004 9105	DIODE DSF10C-BT	1
D423	407 050 0101	ZENER DIODE GZA24Y	1
D424	407 050 0101	ZENER DIODE GZA24Y	1
D425	407 050 5502	ZENER DIODE GZA5.6Y	1
D426	407 050 0507	ZENER DIODE GZA27Z	1
D427	407 088 6502	DIODE MPG06D-PKG3	1
D430	407 050 5502	ZENER DIODE GZA5.6Y	1
D431	407 050 7209	ZENER DIODE GZA8.2X	1
D432	407 050 7209	ZENER DIODE GZA8.2X	1
D434	407 008 0405	DIODE GMB01	1
D435	407 008 0405	DIODE GMB01-BT	1
D436	407 069 1205	DIODE DS441	1
D437	407 008 0405	DIODE GMB01-BT	1
D438	407 008 0405	DIODE GMB01-BT	1
D439	407 008 0405	DIODE GMB01-BT	1
D440	407 004 9105	DIODE DSF10C-BT	1
D441	407 088 6502	DIODE MPG06D-PKG3	1
D442	407 050 3706	ZENER DIODE GZA4.7Y	1
Q401	405 039 5802	TR 2SC3792	1
Q402	405 039 5802	TR 2SC3792	1
Q403	405 019 2708	TR 2SC536-F-NP	1
or	405 019 3804	TR 2SC536-G-NP	1
Q404	405 019 2708	TR 2SC536-F-NP	1
or	405 019 3804	TR 2SC536-G-NP	1
Q405	405 004 4502	TR 2SA608-F-NP	1
or	405 004 5004	TR 2SA608-G-NP	1
Q406	405 004 4502	TR 2SA608-F-NP	1
or	405 004 5004	TR 2SA608-G-NP	1
Q407	405 019 2906	TR 2SC536-F-SP	1
or	405 019 4009	TR 2SC536-G-SP	1
Q408	405 019 2906	TR 2SC536-F-SP	1
or	405 019 4009	TR 2SC536-G-SP	1
Q409	405 034 6804	TR DTA114-ES	1
or	405 003 7900	TR 2SA1348	1
Q410	405 019 2708	TR 2SC536-F-NP	1

Ref. No.	Part No.	Description	Q'ty
or	405 019 3804	TR 2SC536-G-NP	1
Q411	405 035 7107	TR 2SD1913-R	1
or	405 035 7206	TR 2SD1913-S	1
or	405 022 5000	TR 2SD1406-Y	1
or	405 022 4904	TR 2SD1406-GR	1
Q412	405 007 5100	TR 2SB560-E-MP	1
or	405 007 5308	TR 2SB560-F-MP	1
Q413	405 035 7107	TR 2SD1913-R	1
or	405 035 7206	TR 2SD1913-S	1
or	405 022 5000	TR 2SD1406-Y	1
or	405 022 4904	TR 2SD1406-GR	1
Q414	405 007 5100	TR 2SB560-E-MP	1
or	405 007 5308	TR 2SB560-F-MP	1
Q415	405 019 2906	TR 2SC536-F-SP	1
or	405 019 4009	TR 2SC536-G-SP	1
Q416	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
Q418	405 004 4700	TR 2SA608-F-SP	1
or	405 004 5202	TR 2SA608-G-SP	1
Q419	405 019 2906	TR 2SC536-F-SP	1
or	405 019 4009	TR 2SC536-G-SP	1
Q420	405 004 4700	TR 2SA608-F-SP	1
or	405 004 5202	TR 2SA608-G-SP	1
Q421	405 019 2906	TR 2SC536-F-SP	1
or	405 019 4009	TR 2SC536-G-SP	1
Q422	405 019 2906	TR 2SC536-F-SP	1
or	405 019 4009	TR 2SC536-G-SP	1
Q423	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
Q424	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
Q425	405 019 2708	TR 2SC536-F-NP	1
or	405 019 3804	TR 2SC536-G-NP	1
C401	403 018 8509	CERAMIC 220P K 50V	1
C402	403 018 8509	CERAMIC 220P K 50V	1
C403	403 018 8509	CERAMIC 220P K 50V	1
C404	403 018 8509	CERAMIC 220P K 50V	1
C405	403 047 1502	ELECT 4.7U M 25V	1
C406	403 047 1502	ELECT 4.7U M 25V	1
C407	403 018 8509	CERAMIC 220P K 50V	1
C408	403 018 8509	CERAMIC 220P K 50V	1
C409	403 039 2906	ELECT 47U M 6.3V	1
C410	403 039 2906	ELECT 47U M 6.3V	1
C411	403 059 0104	POLYESTER 0.018U K 50V	1
C412	403 059 0104	POLYESTER 0.018U K 50V	1
C413	403 061 8303	POLYESTER 4700P K 50V	1
C414	403 061 8303	POLYESTER 4700P K 50V	1
C415	403 049 1609	ELECT 1U M 50V	1
C416	403 049 1609	ELECT 1U M 50V	1
C421	403 069 8404	CERAMIC 0.01U Z 50V	1
C422	403 069 8404	CERAMIC 0.01U Z 50V	1
C423	403 018 8509	CERAMIC 220P K 50V	1
C424	403 018 8509	CERAMIC 220P K 50V	1
C425	403 018 8509	CERAMIC 220P K 50V	1
C426	403 018 8509	CERAMIC 220P K 50V	1
C427	403 018 8509	CERAMIC 220P K 50V	1
C428	403 018 8509	CERAMIC 220P K 50V	1
C429	403 018 8509	CERAMIC 220P K 50V	1
C430	403 018 8509	CERAMIC 220P K 50V	1
C431	403 018 8509	CERAMIC 220P K 50V	1
C432	403 018 8509	CERAMIC 220P K 50V	1
C433	403 018 8509	CERAMIC 220P K 50V	1
C434	403 018 8509	CERAMIC 220P K 50V	1
C435	403 047 1502	ELECT 4.7U M 25V	1
C436	403 047 1502	ELECT 4.7U M 25V	1
C437	403 009 8105	CERAMIC 100P K 50V	1
C438	403 009 8105	CERAMIC 100P K 50V	1
C439	403 047 1502	ELECT 4.7U M 25V	1
C440	403 047 1502	ELECT 4.7U M 25V	1
C441	403 045 0507	ELECT 100U M 25V	1
C442	403 045 0507	ELECT 100U M 25V	1
C445	403 049 1609	ELECT 1U M 50V	1
C449	403 009 8105	CERAMIC 100P K 50V	1
C450	403 009 8105	CERAMIC 100P K 50V	1
C451	403 047 1502	ELECT 4.7U M 25V	1
C452	403 047 1502	ELECT 4.7U M 25V	1
C453	403 039 2906	ELECT 47U M 6.3V	1
C454	403 039 2906	ELECT 47U M 6.3V	1
C455	403 008 5204	CERAMIC 10P D 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
C456	403 008 5204	CERAMIC 10P D 50V	1
C457	403 047 4206	ELECT 47U M 25V	1
C458	403 047 4206	ELECT 47U M 25V	1
C461	403 010 1805	CERAMIC 1000P K 50V	1
C462	403 010 1805	CERAMIC 1000P K 50V	1
C463	403 049 1609	ELECT 1U M 50V	1
C464	403 049 1609	ELECT 1U M 50V	1
C465	403 074 2701	CERAMIC 0.047U Z 50V	1
C466	403 074 2701	CERAMIC 0.047U Z 50V	1
C467	403 071 6207	CERAMIC 220P K 50V	1
C468	403 071 6207	CERAMIC 220P K 50V	1
C469	403 039 2906	ELECT 47U M 6.3V	1
C470	403 039 2906	ELECT 47U M 6.3V	1
C471	403 028 8001	CERAMIC 56P K 50V	1
C472	403 028 8001	CERAMIC 56P K 50V	1
C473	403 052 4703	ELECT 47U M 63V	1
C474	403 052 4703	ELECT 47U M 63V	1
C477	403 072 2703	CERAMIC 0.022U Z 50V	1
C478	403 072 2703	CERAMIC 0.022U Z 50V	1
C479	403 072 2703	CERAMIC 0.022U Z 50V	1
C480	403 072 2703	CERAMIC 0.022U Z 50V	1
C481	403 057 2100	POLYESTER 0.1U J 50V	1
C482	403 057 2100	POLYESTER 0.1U J 50V	1
C483	403 052 4703	ELECT 47U M 63V	1
C484	403 051 8603	ELECT 10U M 63V	1
C486	403 041 3304	ELECT 47U M 10V	1
C487	404 043 0001	ELECT 6800U M 63V	1
or	404 040 4101	ELECT 6800U M 63V	1
C488	404 043 0001	ELECT 6800U M 63V	1
or	404 040 4101	ELECT 6800U M 63V	1
C493	403 053 1404	ELECT 22U M 35V	1
C499	403 052 9609	ELECT 1000U M 35V	1
C500	403 054 2608	ELECT 470U M 35V	1
C501	403 054 1205	ELECT 47U M 35V	1
C502	403 054 1205	ELECT 47U M 35V	1
C503	403 044 8207	ELECT 10U M 25V	1
C504	403 044 8207	ELECT 10U M 25V	1
C505	403 041 3304	ELECT 47U M 10V	1
C506	403 038 2303	ELECT 100U M 6.3V	1
C507	403 045 0507	ELECT 100U M 25V	1
C508	403 057 0601	POLYESTER 0.01U K 50V	1
C509	403 057 2100	POLYESTER 0.1U J 50V	1
C516	403 043 7003	ELECT 330U M 16V	1
C519	403 039 4504	ELECT 470U M 6.3V	1
C520	403 044 8207	ELECT 10U M 25V	1
C521	403 049 1609	ELECT 1U M 50V	1
C522	403 038 2303	ELECT 100U M 6.3V	1
C523	404 039 4303	ELECT 2200U M 10V	1
or	404 032 2207	ELECT 2200U M 10V	1
C524	403 069 8404	CERAMIC 0.01U Z 50V	1
C525	403 019 0403	CERAMIC 24P J 50V	1
C526	403 019 0403	CERAMIC 24P J 50V	1
C527	403 047 9607	ELECT 0.1U M 50V	1
C528	403 049 1609	ELECT 1U M 50V	1
C529	⚠ 620 006 6679	Capacitor 0.01MF400V	1
C530	403 074 2701	CERAMIC 0.047U Z 50V	1
C533	403 015 1602	CERAMIC 2P C 50V	1
C534	403 015 1602	CERAMIC 2P C 50V	1
C535	404 012 7000	CERAMIC 0.01U P 500V	1
C536	404 012 7000	CERAMIC 0.01U P 500V	1
C551	403 018 8509	CERAMIC 220P K 50V	1
C552	403 018 8509	CERAMIC 220P K 50V	1
C561	403 049 1609	ELECT 1U M 50V	1
C562	403 049 1609	ELECT 1U M 50V	1
C563	403 069 8404	CERAMIC 0.01U Z 50V	1
R401	401 024 7004	CARBON 1K JA 1/6W	1
R402	401 024 7004	CARBON 1K JA 1/6W	1
R403	401 024 7707	CARBON 100K JA 1/6W	1
R404	401 024 7707	CARBON 100K JA 1/6W	1
R405	401 024 7707	CARBON 100K JA 1/6W	1
R406	401 024 7707	CARBON 100K JA 1/6W	1
R407	401 026 3905	CARBON 330 JA 1/6W	1
R408	401 026 3905	CARBON 330 JA 1/6W	1
R409	401 025 8703	CARBON 220K JA 1/6W	1
R410	401 025 8703	CARBON 220K JA 1/6W	1
R411	401 025 1902	CARBON 15K JA 1/6W	1
R412	401 025 1902	CARBON 15K JA 1/6W	1
R413	401 024 7004	CARBON 1K JA 1/6W	1
R414	401 024 7004	CARBON 1K JA 1/6W	1

Ref. No.	Part No.	Description	Q'ty
R415	401 024 7707	CARBON 100K JA 1/6W	1
R416	401 024 7707	CARBON 100K JA 1/6W	1
R421	401 024 7004	CARBON 1K JA 1/6W	1
R422	401 024 7004	CARBON 1K JA 1/6W	1
R423	401 024 7004	CARBON 1K JA 1/6W	1
R424	401 024 7004	CARBON 1K JA 1/6W	1
R425	401 024 7004	CARBON 1K JA 1/6W	1
R426	401 024 7004	CARBON 1K JA 1/6W	1
R427	401 024 7004	CARBON 1K JA 1/6W	1
R428	401 024 7004	CARBON 1K JA 1/6W	1
R429	401 024 7004	CARBON 1K JA 1/6W	1
R430	401 024 7004	CARBON 1K JA 1/6W	1
R431	401 024 7004	CARBON 1K JA 1/6W	1
R432	401 024 7004	CARBON 1K JA 1/6W	1
R447	402 040 5609	OXIDE-MT 1.2K JB 1/2W	1
or	401 055 0401	OXIDE-MT 1.2K JB 1/2W	1
R448	402 040 5609	OXIDE-MT 1.2K JB 1/2W	1
or	401 055 0401	OXIDE-MT 1.2K JB 1/2W	1
R449	401 024 7400	CARBON 10K JA 1/6W	1
R451	401 024 7707	CARBON 100K JA 1/6W	1
R452	401 024 7707	CARBON 100K JA 1/6W	1
R453	401 024 7707	CARBON 100K JA 1/6W	1
R454	401 024 7707	CARBON 100K JA 1/6W	1
R457	401 012 5708	CARBON 1K JA 1/4W	1
R458	401 024 7004	CARBON 1K JA 1/6W	1
R463	401 024 7004	CARBON 1K JA 1/6W	1
R464	401 024 7004	CARBON 1K JA 1/6W	1
R465	401 024 7707	CARBON 100K JA 1/6W	1
R466	401 024 7707	CARBON 100K JA 1/6W	1
R467	401 025 4200	CARBON 1.8K JA 1/6W	1
R468	401 025 4200	CARBON 1.8K JA 1/6W	1
R469	401 027 2600	CARBON 5.6K JA 1/6W	1
R470	401 027 2600	CARBON 5.6K JA 1/6W	1
R471	401 025 7805	CARBON 2.2K JA 1/6W	1
R472	401 025 7805	CARBON 2.2K JA 1/6W	1
R473	401 017 1804	CARBON 2.7K JA 1/4W	1
R474	401 017 1804	CARBON 2.7K JA 1/4W	1
R475	401 024 7707	CARBON 100K JA 1/6W	1
R476	401 024 7707	CARBON 100K JA 1/6W	1
R477	401 021 3009	CARBON 5.6K JA 1/4W	1
R478	401 027 2600	CARBON 5.6K JA 1/6W	1
R479	401 025 7805	CARBON 2.2K JA 1/6W	1
R480	401 025 7805	CARBON 2.2K JA 1/6W	1
R481	401 027 9005	CARBON 82K JA 1/6W	1
R482	401 027 9005	CARBON 82K JA 1/6W	1
R483	401 026 9303	CARBON 47 JA 1/6W	1
R484	401 026 9303	CARBON 47 JA 1/6W	1
R485	401 026 9303	CARBON 47 JA 1/6W	1
R486	401 026 9303	CARBON 47 JA 1/6W	1
R487	402 040 7207	WIRE WOUND 0.47 KA 5W	1
R488	402 040 7207	WIRE WOUND 0.47 KA 5W	1
R489	401 024 7004	CARBON 1K JA 1/6W	1
R490	401 024 7004	CARBON 1K JA 1/6W	1
R491	401 024 7004	CARBON 1K JA 1/6W	1
R492	401 024 7004	CARBON 1K JA 1/6W	1
R493	402 040 5500	OXIDE-MT 1K JB 1/2W	1
or	401 054 8705	OXIDE-MT 1K JB 1/2W	1
R494	402 040 5500	OXIDE-MT 1K JB 1/2W	1
or	401 054 8705	OXIDE-MT 1K JB 1/2W	1
R495	402 039 6303	OXIDE-MT 10 JB 1W	1
or	401 058 1207	OXIDE-MT 10 JB 1W	1
R496	402 039 6303	OXIDE-MT 10 JB 1W	1
or	401 058 1207	OXIDE-MT 10 JB 1W	1
R497	401 019 3004	CARBON 39K JA 1/4W	1
R498	401 026 7408	CARBON 39K JA 1/6W	1
R499	401 020 2003	CARBON 4.7K JA 1/4W	1
R500	401 020 2003	CARBON 4.7K JA 1/4W	1
R501	401 056 3906	OXIDE-MT 4.7K JB 1/2W	1
R502	401 056 3906	OXIDE-MT 4.7K JB 1/2W	1
R503	402 015 3104	FUSIBLE RES 100 J- 1/4W	1
R504	401 056 3906	OXIDE-MT 4.7K JB 1/2W	1
R505	401 012 4503	CARBON 100 JA 1/4W	1
R506	401 026 9907	CARBON 4.7K JA 1/6W	1
R507	401 025 8208	CARBON 22K JA 1/6W	1
R509	402 015 3401	FUSIBLE RES 120 J- 1/4W	1
R511	402 015 5108	FUSIBLE RES 560 J- 1/4W	1
R512	402 015 5108	FUSIBLE RES 560 J- 1/4W	1
R513	401 021 1906	CARBON 560 JA 1/4W	1
R514	401 021 1906	CARBON 560 JA 1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R515	402 016 1307	FUSIBLE RES 100 J- 1/2W	1
R516	401 019 1901	CARBON 3.9K JA 1/4W	1
R517	401 020 2904	CARBON 47K JA 1/4W	1
R518	401 026 9907	CARBON 4.7K JA 1/6W	1
R519	401 024 7707	CARBON 100K JA 1/6W	1
R520	402 016 2106	FUSIBLE RES 220 J- 1/2W	1
R521	401 016 3809	CARBON 2.2K JA 1/4W	1
R522	402 015 3906	FUSIBLE RES 22 J- 1/4W	1
R523	401 026 4308	CARBON 3.3K JA 1/6W	1
R524	401 026 1307	CARBON 27K JA 1/6W	1
R526	401 085 5902	OXIDE-MT 180 JB 1/2W	1
R527	401 024 7400	CARBON 10K JA 1/6W	1
R528	401 012 3407	CARBON 10 JA 1/4W	1
R529	401 012 8105	CARBON 100K JA 1/4W	1
R530	401 024 7707	CARBON 100K JA 1/6W	1
R531	401 025 2305	CARBON 150K JA 1/6W	1
R532	401 026 3905	CARBON 330 JA 1/6W	1
R533	401 024 7004	CARBON 1K JA 1/6W	1
R534	401 020 2904	CARBON 47K JA 1/4W	1
R535	401 024 7400	CARBON 10K JA 1/6W	1
R536	401 024 7400	CARBON 10K JA 1/6W	1
R537	401 024 7400	CARBON 10K JA 1/6W	1
R538	401 024 7400	CARBON 10K JA 1/6W	1
R539	401 024 6700	CARBON 100 JA 1/6W	1
R540	401 024 6700	CARBON 100 JA 1/6W	1
R541	401 027 2600	CARBON 5.6K JA 1/6W	1
R542	401 027 2600	CARBON 5.6K JA 1/6W	1
R543	401 019 9600	CARBON 47 JA 1/4W	1
R544	401 019 9600	CARBON 47 JA 1/4W	1
R545	401 025 8208	CARBON 22K JA 1/6W	1
R547	401 012 3407	CARBON 10 JA 1/4W	1
R548	401 024 7400	CARBON 10K JA 1/6W	1
R549	401 026 7408	CARBON 39K JA 1/6W	1
R550	401 012 8105	CARBON 100K JA 1/4W	1
R551	401 012 5708	CARBON 1K JA 1/4W	1
R552	401 012 5708	CARBON 1K JA 1/4W	1
R553	401 012 5708	CARBON 1K JA 1/4W	1
R554	401 012 5708	CARBON 1K JA 1/4W	1
R555	401 027 0507	CARBON 470K JA 1/6W	1
R557	402 040 4107	OXIDE-MT 12 JB 1/2W	1
or	401 108 2505	OXIDE-MT 12 JB 1/2W	1
R558	402 015 2909	FUSIBLE RES 1 J- 1/4W	1
R559	401 024 7400	CARBON 10K JA 1/6W	1
R561	401 024 7707	CARBON 100K JA 1/6W	1
R571	401 025 8703	CARBON 220K JA 1/6W	1
R572	401 025 8703	CARBON 220K JA 1/6W	1
R573	401 027 5908	CARBON 68K JA 1/6W	1
G-EQ P.C.B. ASSY			
58	620 191 0025	G-EQ P.C.B. Assy	1
CA805	620 191 1770	Connector 5P Assy	1
CA806	620 191 1763	Connector 3P Assy	1
VR801	620 190 8817	Rotary VR 2X250KW	1
VR802	620 190 8817	Rotary VR 2X250KW	1
VR803	620 190 8817	Rotary VR 2X250KW	1
VR804	620 190 8817	Rotary VR 2X250KW	1
VR805	620 190 8817	Rotary VR 2X250KW	1
IC801	409 018 4503	IC LA6458DS	1
Q801	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q802	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q803	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q804	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q805	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q806	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q807	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q808	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q809	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
Q810	405 010 9607	TR 2SC1571-F-NP	1
or	405 010 9706	TR 2SC1571-G-NP	1
C801	403 009 8105	CERAMIC 100P K 50V	1

Ref. No.	Part No.	Description	Q'ty
C802	403 009 8105	CERAMIC 100P K 50V	1
C803	403 047 1502	ELECT 4.7U M 25V	1
C804	403 047 1502	ELECT 4.7U M 25V	1
C805	403 009 8105	CERAMIC 100P K 50V	1
C806	403 009 8105	CERAMIC 100P K 50V	1
C807	403 008 5204	CERAMIC 10P D 50V	1
C808	403 008 5204	CERAMIC 10P D 50V	1
C809	403 047 1502	ELECT 4.7U M 25V	1
C810	403 047 1502	ELECT 4.7U M 25V	1
C811	403 047 1502	ELECT 4.7U M 25V	1
C812	403 047 1502	ELECT 4.7U M 25V	1
C815	403 050 7706	ELECT 3.3U M 50V	1
C816	403 050 7706	ELECT 3.3U M 50V	1
C817	403 048 7602	ELECT 0.47U M 50V	1
C818	403 048 7602	ELECT 0.47U M 50V	1
C819	403 063 7809	POLYESTER 0.082U K 50V	1
C820	403 063 7809	POLYESTER 0.082U K 50V	1
C821	403 059 6809	POLYESTER 0.022U K 50V	1
C822	403 059 6205	POLYESTER 0.022U K 50V	1
C823	403 061 8303	POLYESTER 4700P K 50V	1
C824	403 061 8006	POLYESTER 4700P J 50V	1
C825	403 059 0104	POLYESTER 0.018U K 50V	1
C826	403 059 0104	POLYESTER 0.018U K 50V	1
C827	403 063 5904	POLYESTER 8200P K 50V	1
C828	403 063 5904	POLYESTER 8200P K 50V	1
C829	403 061 8303	POLYESTER 4700P K 50V	1
C830	403 061 8303	POLYESTER 4700P K 50V	1
C831	403 058 1300	POLYESTER 1500P K 50V	1
C832	403 058 1300	POLYESTER 1500P K 50V	1
C833	403 074 9007	CERAMIC 680P K 50V	1
C834	403 074 9007	CERAMIC 680P K 50V	1
C835	403 047 4206	ELECT 47U M 25V	1
C836	403 047 4206	ELECT 47U M 25V	1
R801	401 024 7004	CARBON 1K JA 1/6W	1
R802	401 024 7004	CARBON 1K JA 1/6W	1
R803	401 024 7707	CARBON 100K JA 1/6W	1
R804	401 024 7707	CARBON 100K JA 1/6W	1
R805	401 024 7707	CARBON 100K JA 1/6W	1
R806	401 024 7707	CARBON 100K JA 1/6W	1
R807	401 026 1000	CARBON 2.7K JA 1/6W	1
R808	401 026 1000	CARBON 2.7K JA 1/6W	1
R809	401 027 5502	CARBON 6.8K JA 1/6W	1
R810	401 027 5502	CARBON 6.8K JA 1/6W	1
R811	401 025 7805	CARBON 2.2K JA 1/6W	1
R812	401 025 7805	CARBON 2.2K JA 1/6W	1
R813	401 026 9907	CARBON 4.7K JA 1/6W	1
R814	401 026 9907	CARBON 4.7K JA 1/6W	1
R815	401 026 4308	CARBON 3.3K JA 1/6W	1
R816	401 018 3807	CARBON 3.3K JA 1/4W	1
R817	401 026 6609	CARBON 390 JA 1/6W	1
R818	401 026 6609	CARBON 390 JA 1/6W	1
R819	401 026 6609	CARBON 390 JA 1/6W	1
R820	401 026 6609	CARBON 390 JA 1/6W	1
R821	401 026 6609	CARBON 390 JA 1/6W	1
R822	401 026 6609	CARBON 390 JA 1/6W	1
R823	401 026 6609	CARBON 390 JA 1/6W	1
R824	401 026 6609	CARBON 390 JA 1/6W	1
R825	401 026 6609	CARBON 390 JA 1/6W	1
R826	401 026 6609	CARBON 390 JA 1/6W	1
R827	401 024 7400	CARBON 10K JA 1/6W	1
R828	401 024 7400	CARBON 10K JA 1/6W	1
R829	401 024 7400	CARBON 10K JA 1/6W	1
R830	401 024 7400	CARBON 10K JA 1/6W	1
R831	401 024 7400	CARBON 10K JA 1/6W	1
R832	401 024 7400	CARBON 10K JA 1/6W	1
R833	401 024 7400	CARBON 10K JA 1/6W	1
R834	401 024 7400	CARBON 10K JA 1/6W	1
R835	401 024 7400	CARBON 10K JA 1/6W	1
R836	401 024 7400	CARBON 10K JA 1/6W	1
R837	401 024 9305	CARBON 1.2K JA 1/6W	1
R838	401 024 9305	CARBON 1.2K JA 1/6W	1
R839	401 024 9305	CARBON 1.2K JA 1/6W	1
R840	401 024 9305	CARBON 1.2K JA 1/6W	1
R841	401 024 9305	CARBON 1.2K JA 1/6W	1
R842	401 024 9305	CARBON 1.2K JA 1/6W	1
R843	401 024 9305	CARBON 1.2K JA 1/6W	1
R844	401 024 9305	CARBON 1.2K JA 1/6W	1
R845	401 024 9305	CARBON 1.2K JA 1/6W	1
R846	401 024 9305	CARBON 1.2K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R847	401 025 0004	CARBON 120K JA 1/6W	1
R848	401 025 0004	CARBON 120K JA 1/6W	1
R849	401 024 7707	CARBON 100K JA 1/6W	1
R850	401 024 7707	CARBON 100K JA 1/6W	1
R851	401 027 0309	CARBON 47K JA 1/6W	1
R852	401 027 0309	CARBON 47K JA 1/6W	1
R853	401 026 7408	CARBON 39K JA 1/6W	1
R854	401 026 7408	CARBON 39K JA 1/6W	1
R855	401 026 1307	CARBON 27K JA 1/6W	1
R856	401 026 1307	CARBON 27K JA 1/6W	1
R857	402 015 3104	FUSIBLE RES 100 J- 1/4W	1
R858	402 015 3104	FUSIBLE RES 100 J- 1/4W	1
VR P.C.B. ASSY			
59	620 191 0032	VR P.C.B. Assy	1
	620 182 7811	Switch Push 1KEY	1
VR601	620 190 8824	Rotary VR 200KW	1
VR602	620 191 1718	Motor VR 100K15AM	1
C601	403 071 5903	CERAMIC 220P K 50V	1
C602	403 071 5903	CERAMIC 220P K 50V	1
C603	403 062 0504	POLYESTER 0.047U K 50V	1
C604	403 062 0504	POLYESTER 0.047U K 50V	1
R601	401 027 2600	CARBON 5.6K JA 1/6W	1
R602	401 027 2600	CARBON 5.6K JA 1/6W	1
MODE SW. P.C.B. ASSY			
60	620 191 0049	Mode SW. P.C.B. Assy	1
	620 182 7811	Switch Push 1KEY	1
SP. SW. P.C.B. ASSY			
61	620 193 1617	SP. SW. P.C.B. Assy	1
	620 191 1725	Switch Push 2 Key	1
	620 191 1787	Jack 3P Black	1
L701	620 027 1240	AF Coil	1
L702	620 027 1240	AF Coil	1
PC701	620 191 1831	Flat Wire 6-280	1
R701	401 019 9600	CARBON 47 JA 1/4W	1
R702	401 019 9600	CARBON 47 JA 1/4W	1
R703	401 067 9102	OXIDE-MT 390 JB 2W	1
R704	401 067 9102	OXIDE-MT 390 JB 2W	1
R705	401 055 0005	OXIDE-MT 120 JB 1/2W	1
R706	401 055 0005	OXIDE-MT 120 JB 1/2W	1
SP. OUT P.C.B. ASSY			
62	620 193 1624	SP. Out P.C.B. Assy	1
	620 185 1953	Push Terminal 8P	1
W701	620 020 8741	Connector 1P Assy	1
C701	403 010 1805	CERAMIC 1000P K 50V	1
C702	403 010 1805	CERAMIC 1000P K 50V	1
C703	403 010 1805	CERAMIC 1000P K 50V	1
C704	403 010 1805	CERAMIC 1000P K 50V	1
C705	403 074 2701	CERAMIC 0.047U Z 50V	1
C706	403 074 2701	CERAMIC 0.047U Z 50V	1
POWER IC P.C.B. ASSY			
63	620 192 2288	Power IC P.C.B. Assy	1
PC405	620 193 1556	Flat Wire 5-100	1
PC406	620 193 1556	Flat Wire 5-100	1
PC407	620 196 0839	Wire Flat Wire 7-100	1
PC408	620 196 0846	Wire Flat Wire 4-100	1
W402	620 020 8741	Connector 1P Assy	1
IC406	409 167 8704	IC STK4201V-SA	1
TERMINAL P.C.B. ASSY			
64	620 193 2904	Terminal P.C.B. Assy	1
	620 022 2587	EC Terminal 1P	2
	620 031 4763	Wire Wrap Terminal	6
FUSE P.C.B. ASSY			
65	620 193 2447	Fuse P.C.B. Assy	1
	620 017 2721	Fuse Clip	10
⚠	423 005 0507	FUSE 250V T1A	3
⚠	423 007 2103	FUSE 250V T4A	2
	620 031 4763	Wire Wrap Terminal	8
SWITCH DISPLAY P.C.B. ASSY			
66	620 195 3824	Switch Display P.C.B. Assy	1
	620 186 6247	Digitron 7-BT-105GK	1
	620 015 1917	Keyboard Switch 6 mm	10
	620 016 7796	Tact Switch	1
	620 189 1553	Spacer	1
	620 190 6431	Cushion	1
	620 190 9364	Function Switch P.C.B. Assy	1
	620 015 1917	Keyboard Switch 6 mm	6
CA101	620 191 1749	Connector 8P Assy	1
CA102	620 191 1732	Connector 9P Assy	1
D101	407 008 0405	DIODE GMB01-BT	1
D102	407 008 0405	DIODE GMB01-BT	1
D103	407 008 0405	DIODE GMB01-BT	1
D104	407 008 0405	DIODE GMB01-BT	1
D105	407 005 3805	DIODE DS442-BT	1
D106	407 005 3805	DIODE DS442-BT	1
D107	407 005 3805	DIODE DS442-BT	1
D108	407 102 7706	LED SEL2813A	1
D109	407 102 7706	LED SEL2813A	1
D110	407 102 7706	LED SEL2813A	1
D111	407 102 7706	LED SEL2813A	1
D112	407 062 7204	LED SEL2213C	1
D113	407 062 7204	LED SEL2213C	1
D151	407 088 6601	SENSOR BX-1407	1
D152	407 005 3805	DIODE DS442-BT	1
D153	407 008 0405	DIODE GMB01-BT	1
D154	407 008 0405	DIODE GMB01-BT	1
Q151	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
Q152	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
Q153	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
Q154	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
R151	401 021 1906	CARBON 560 JA 1/4W	1
R152	401 025 8208	CARBON 22K JA 1/6W	1
R153	401 024 7400	CARBON 10K JA 1/6W	1
R154	401 024 7400	CARBON 10K JA 1/6W	1
R155	401 025 7805	CARBON 2.2K JA 1/6W	1
R156	401 025 7805	CARBON 2.2K JA 1/6W	1
R157	401 025 7805	CARBON 2.2K JA 1/6W	1
R158	401 025 7805	CARBON 2.2K JA 1/6W	1

NOTES:

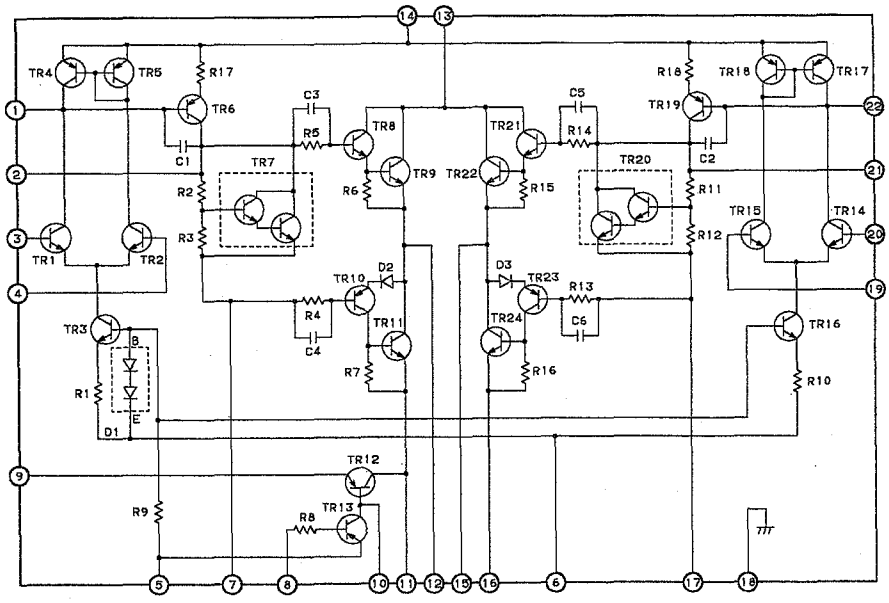
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

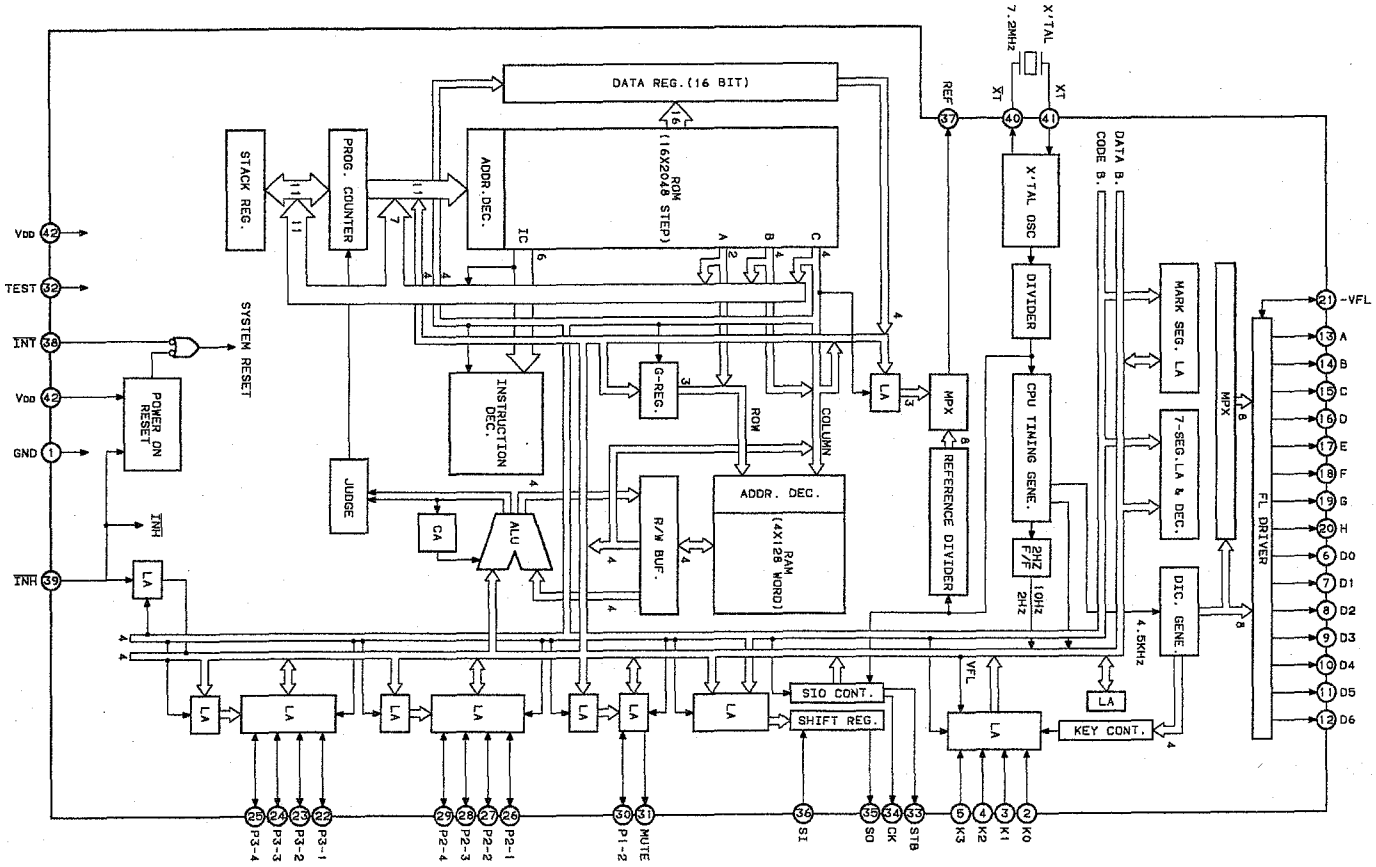
Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

IC BLOCK DIAGRAM

STK4201V-SA BLOCK DIAGRAM

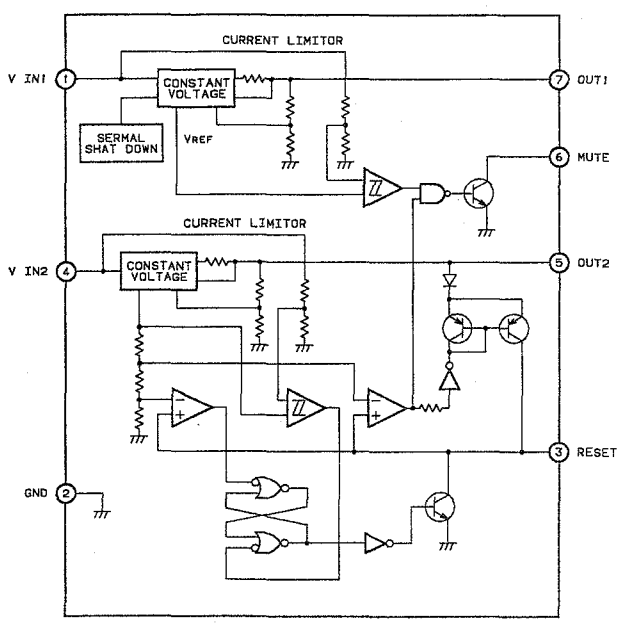


TSE1039AN-012 BLOCK DIAGRAM

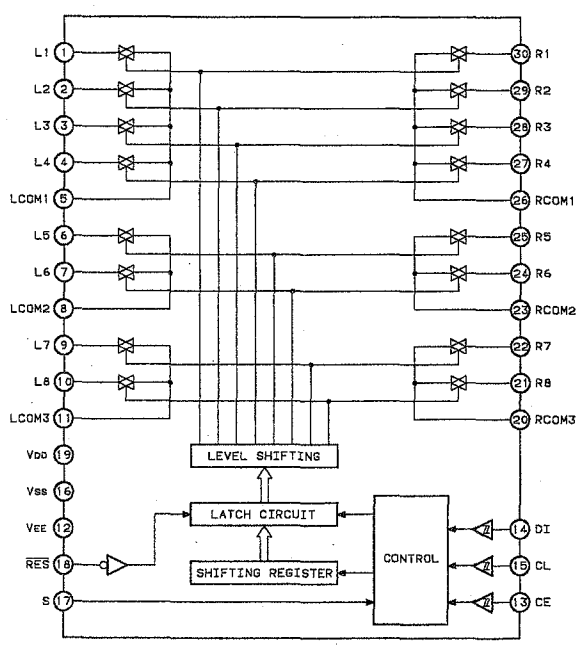


IC BLOCK DIAGRAM (Continued)

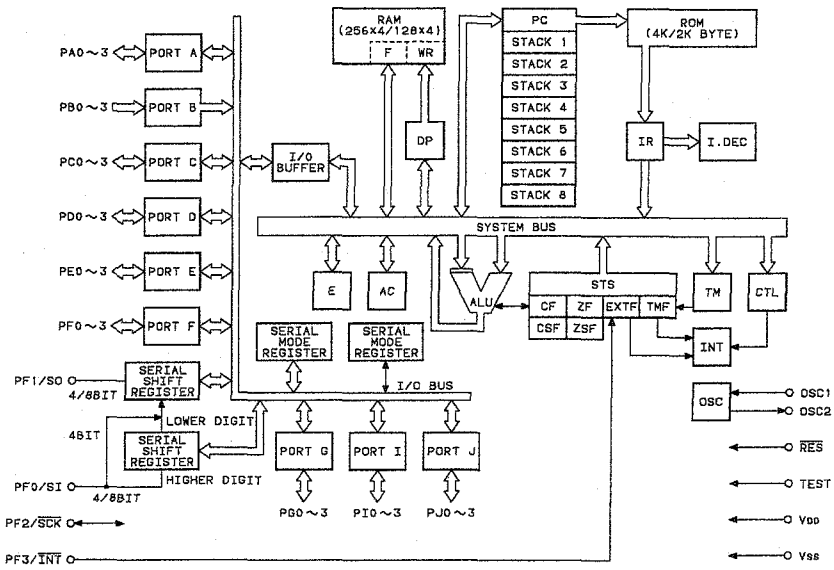
LA5667 BLOCK DIAGRAM



LC7821 BLOCK DIAGRAM

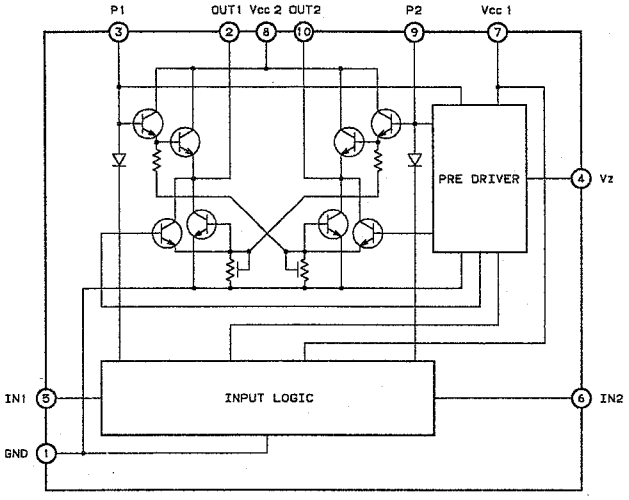


LC6522H-3794 BLOCK DIAGRAM

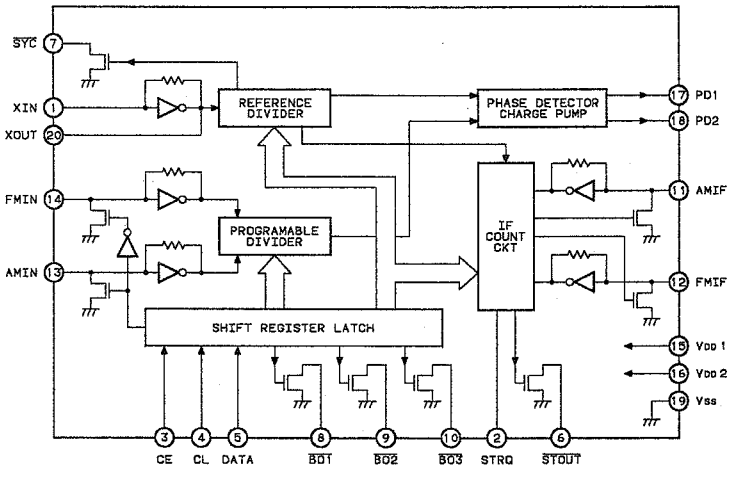


IC BLOCK DIAGRAM (Continued)

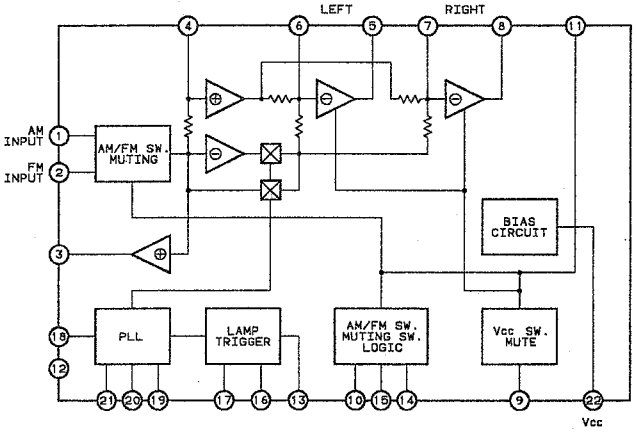
LB1641 BLOCK DIAGRAM



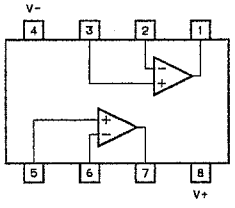
LM7000 BLOCK DIAGRAM



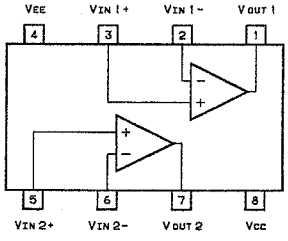
LA3400 BLOCK DIAGRAM



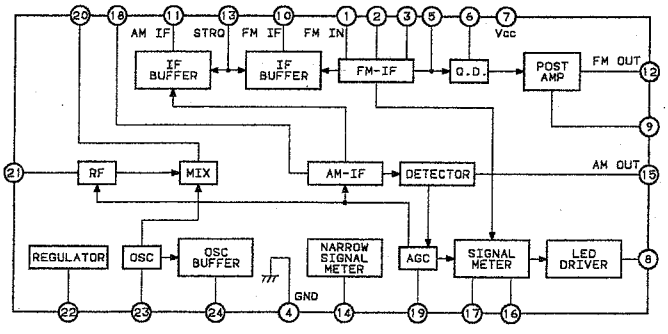
UPC4570C BLOCK DIAGRAM



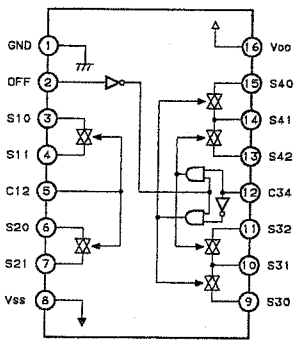
LA6458DS BLOCK DIAGRAM



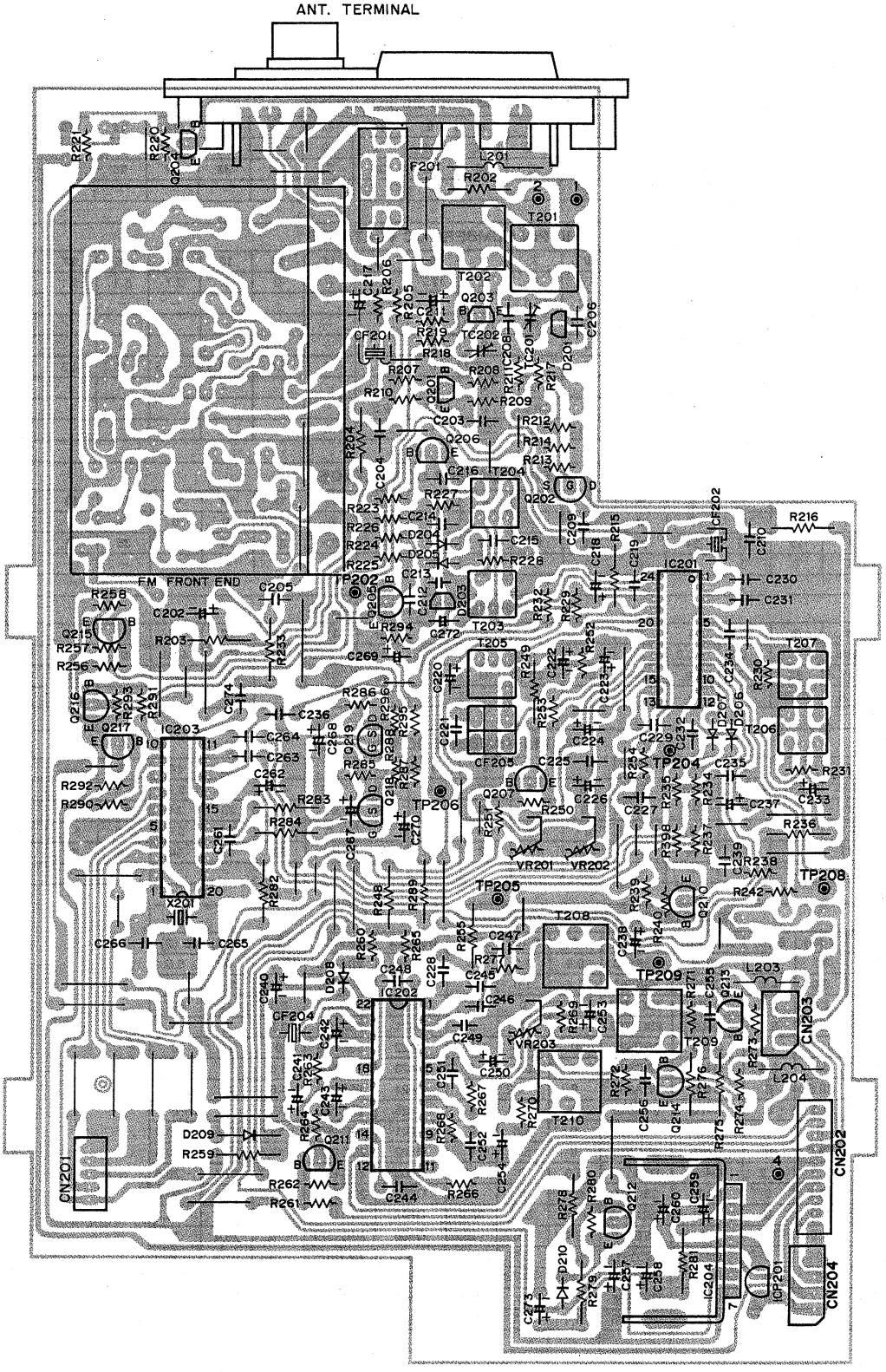
LA1266 BLOCK DIAGRAM



TC9215P BLOCK DIAGRAM



TUNER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



IC & TRANSISTOR DC VOLTAGES

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC201	LA1266	2.4	2.4	2.4	0	12.0	12.0	12.0	5.3	3.6	2.4	2.6	3.2	0	1.5	1.2	0	0	2.4	1.2	0
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		4.0	4.0	4.0	3.1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC202	LA3400	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0	0	0	5.3	4.9	0	2.9	2.9	2.9	2.9	2.9
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		3.5	10.8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC203	LM7000	1.5	0	0	0	0	5.4	0	0	12.7	12.7	0	0	0	2.7	5.1	5.1	1.1	1.1	0	1.5
IC204	LA5667	24.3	0	4.9	24.3	0	4.2	13.1	–	–	–	–	–	–	–	–	–	–	–	–	–
IC401	UPC4570C	0	0	0	−15.0	0	0	0	14.2	–	–	–	–	–	–	–	–	–	–	–	–
IC403	LA6458DS	0	0	0	−15.1	0	0	0	0	–	–	–	–	–	–	–	–	–	–	–	–
IC404	TC9215P	0	0	−15.7	−15.7	0	0	0	−15.2	0	0	0	5.6	−11.3	−11.3	−15.7	2.3	–	–	–	–
IC405	LA6458DS	0	0	0	−14.4	0	0	0	14.2	–	–	–	–	–	–	–	–	–	–	–	–
IC408	LB1641	0	0.5	0.7	0.4	0	0	14.5	0	0.6	0.5	–	–	–	–	–	–	–	–	–	–
IC801	LA6458DS	−21.0	−19.8	−19.6	−23.6	−19.2	−19.3	−19.5	23.5	–	–	–	–	–	–	–	–	–	–	–	–

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC402	LC7821	0	0	0	0	0	0	0	0	0	0	0	−15.1	0	0	0	0	0	14.2	14.2	0
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		0	0	0	0	0	0	0	0	0	0	–	–	–	–	–	–	–	–	–	–

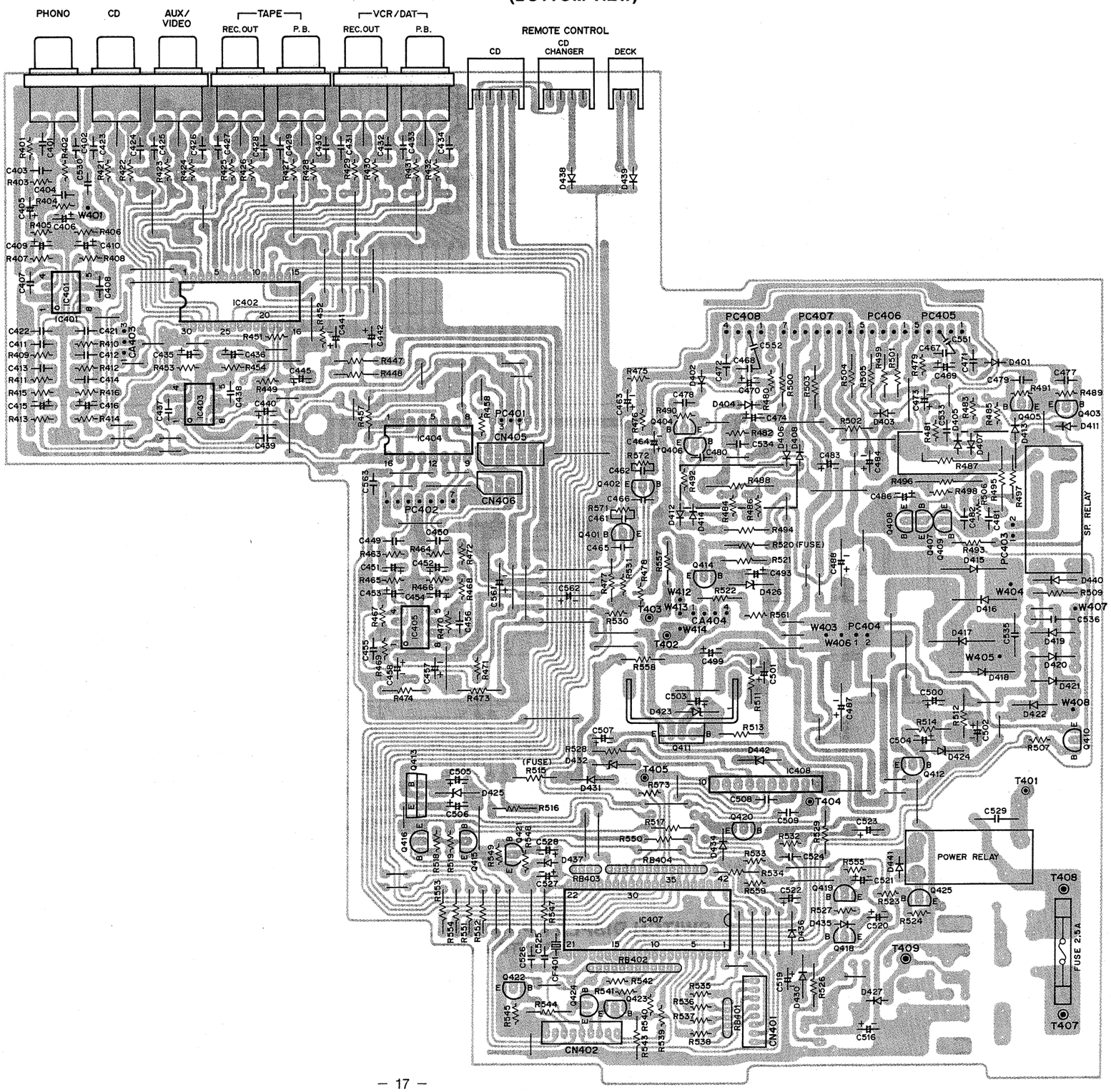
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC406	STK4201	48.8	1.1	−0.3	−0.3	0	−48.4	−1.3	0	−50.5	−51.1	−51.3	0	51.3	49.9	0	−51.5	−1.3	0	−0.3	−0.2
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		1.0	49.3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC407	LC6522H	3.6	3.7	4.7	4.8	4.8	4.8	4.2	5.6	5.6	5.6	4.2	4.4	5.6	2.2	5.6	5.6	5.6	5.6	0	0
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		2.0	1.4	4.7	0	0	0	5.6	5.6	0	0	0	2.9	5.6	5.6	5.6	5.6	0	5.6	5.0	4.8
		41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**
		3.7	3.7	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

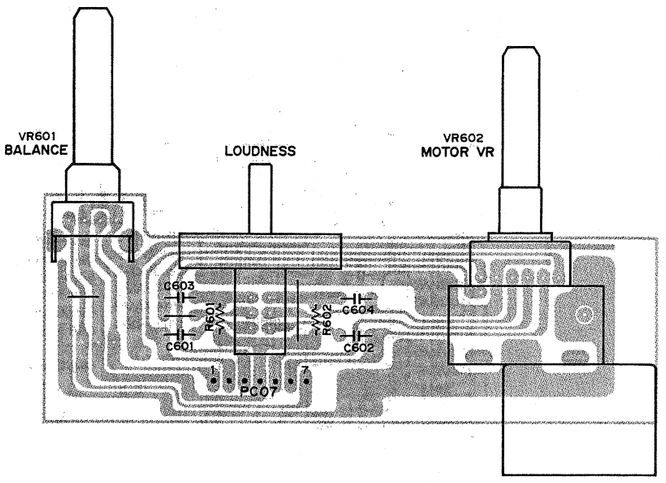
TRANSISTOR & FET DC VOLTAGES													
Ref. No.	**DEVICE**	**B (D)**	**C (G)**	**E (S)**	**Ref. No.**	**DEVICE**	**B (D)**	**C (G)**	**E (S)**	**Ref. No.**	**DEVICE**	**B (D)**	**C (G)**	**E (S)**
Q151	2SB808	5.0	3.7	4.7	Q218	2SK583	0.9	1.2	0	Q418	2SA608	5.6	0	5.5
Q152	2SB808	5.0	3.0	4.7	Q219	2SK583	1.4	1.0	0	Q419	2SC536	−1.1	5.0	0
Q153	2SB808	4.7	2.6	5.0	Q401	2SC3792	−14.7	0	0	Q420	2SA608	5.5	−14.7	5.5
Q154	2SB808	4.7	2.9	5.0	Q402	2SC3792	−14.7	0	0	Q421	2SC536	0.5	0	0
Q201	2SC2839	1.8	11.9	1.1	Q403	2SC536	0	0.9	0	Q422	2SC536	0	5.6	0
Q202	2SK246	10.9	4.2	6.8	Q404	2SC536	0	0.9	0	Q423	2SB808	5.6	0	0
Q203	2SD1012	0	12.5	0	Q405	2SA608	0	−1.2	0	Q424	2SB808	4.6	0.5	3.3
Q204	2SD1012	0	4.5	0	Q406	2SA608	0	−1.1	0	Q425	2SC536	0.7	0	0
Q205	2SC536	0.7	0	0	Q407	2SC536	0	5.6	0	Q801	2SC1571	−19.6	23.4	−20.6
Q206	2SC536	0	13.0	0	Q408	2SC536	0	5.6	0	Q802	2SC1571	−19.6	23.4	−20.6
Q207	2SA608	0.8	1.2	1.2	Q409	DTA114	5.6	0	5.6	Q803	2SC1571	−19.7	23.4	−20.6
Q210	2SC536	0	13.0	0	Q410	2SC536	0.7	0	0	Q804	2SC1571	−19.7	23.4	−20.6
Q211	2SC536	0	3.0	0	Q411	2SD1913	24.4	29.9	25.0	Q805	2SC1571	−19.7	23.4	−20.4
Q212	2SA608	4.3	4.9	5.0	Q412	2SB560	−24.4	−30.3	−25.0	Q806	2SC1571	−19.7	23.4	−20.4
Q213	2SC536	0.6	0	0	Q413	2SD1913	5.6	27.7	5.1	Q807	2SC1571	−19.7	23.4	−20.3
Q214	2SC536	0.6	0	0	Q414	2SB560	−29.9	−47.9	−29.3	Q808	2SC1571	−19.6	23.4	−20.3
Q215	2SC536	0	0.7	0	Q415	2SC536	0.6	0	0	Q809	2SC1571	−19.6	23.4	−20.3
Q216	2SA608	12.8	0	13.1	Q416	2SB808	4.4	5.1	5.1	Q810	2SC1571	−19.6	23.4	−20.2
Q217	2SA608	13.1	0	12.8										

NOTES:
All voltages indicated on the schematics are measured under the following conditions.
a. Use a V.T.V.M.
b. All voltages ±10 % with respect to chassis ground.
c. No signals at input terminals.
d. AC input at 220 volts 50 Hz.

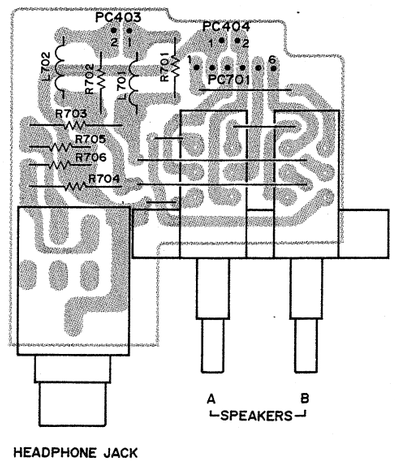
MAIN PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



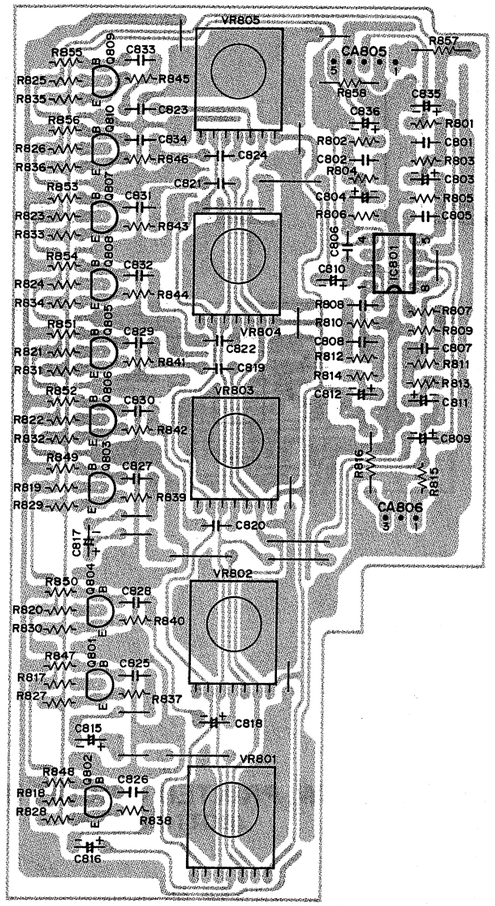
VR PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



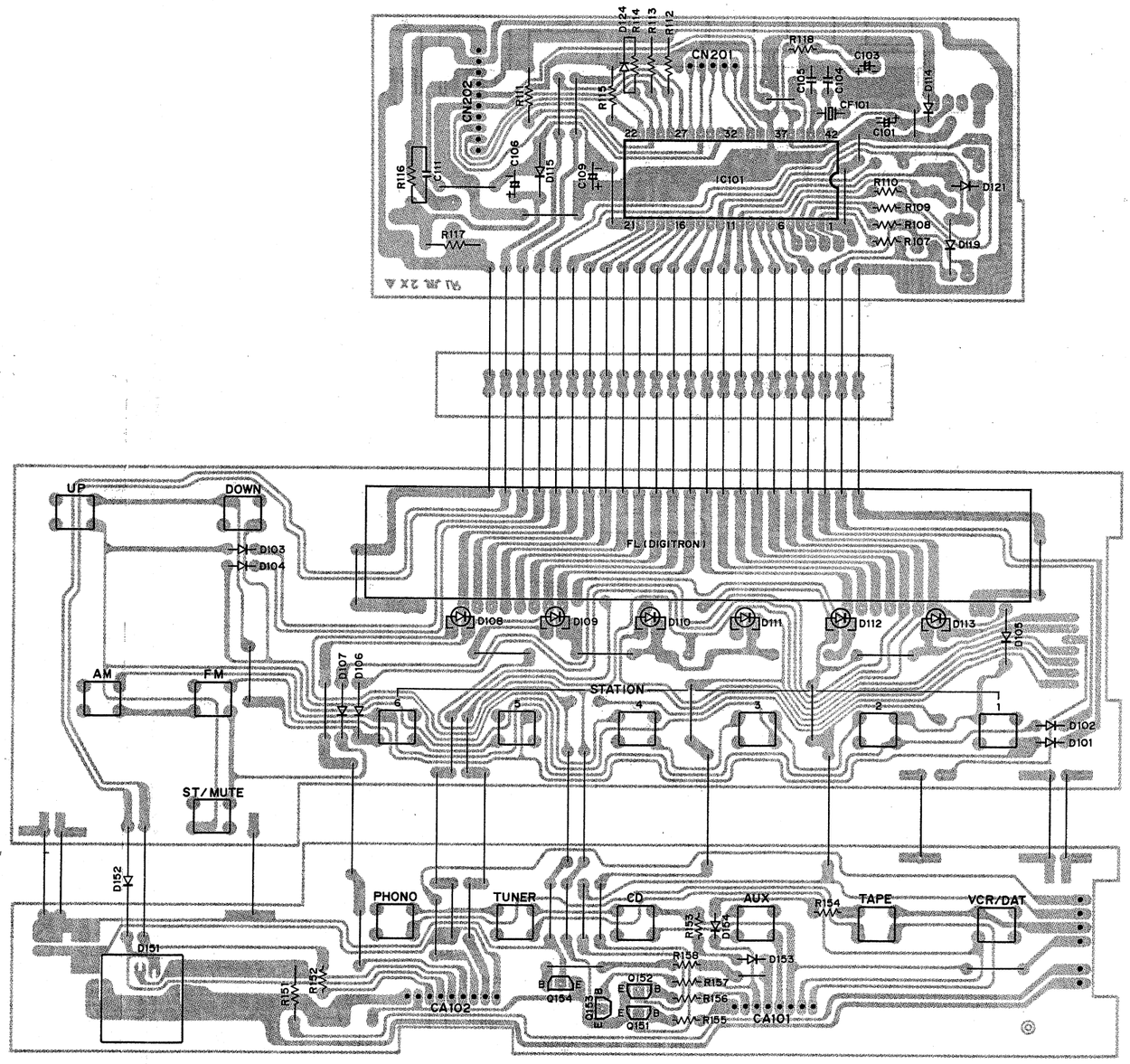
SP SW. PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



G-EQ PRINTED CIRCUIT BOARD
(BOTTOM VIEW)

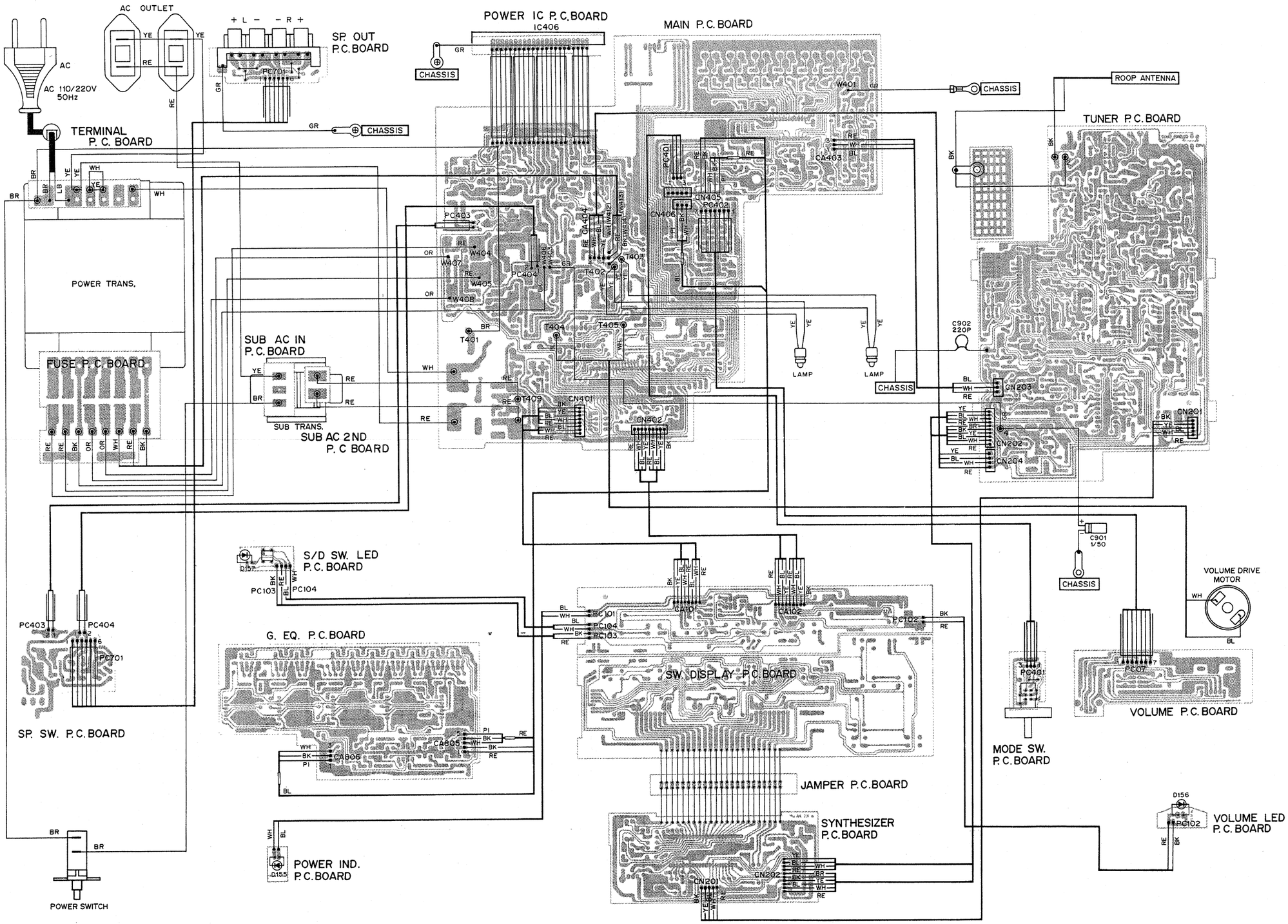


SYNTHESIZER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)

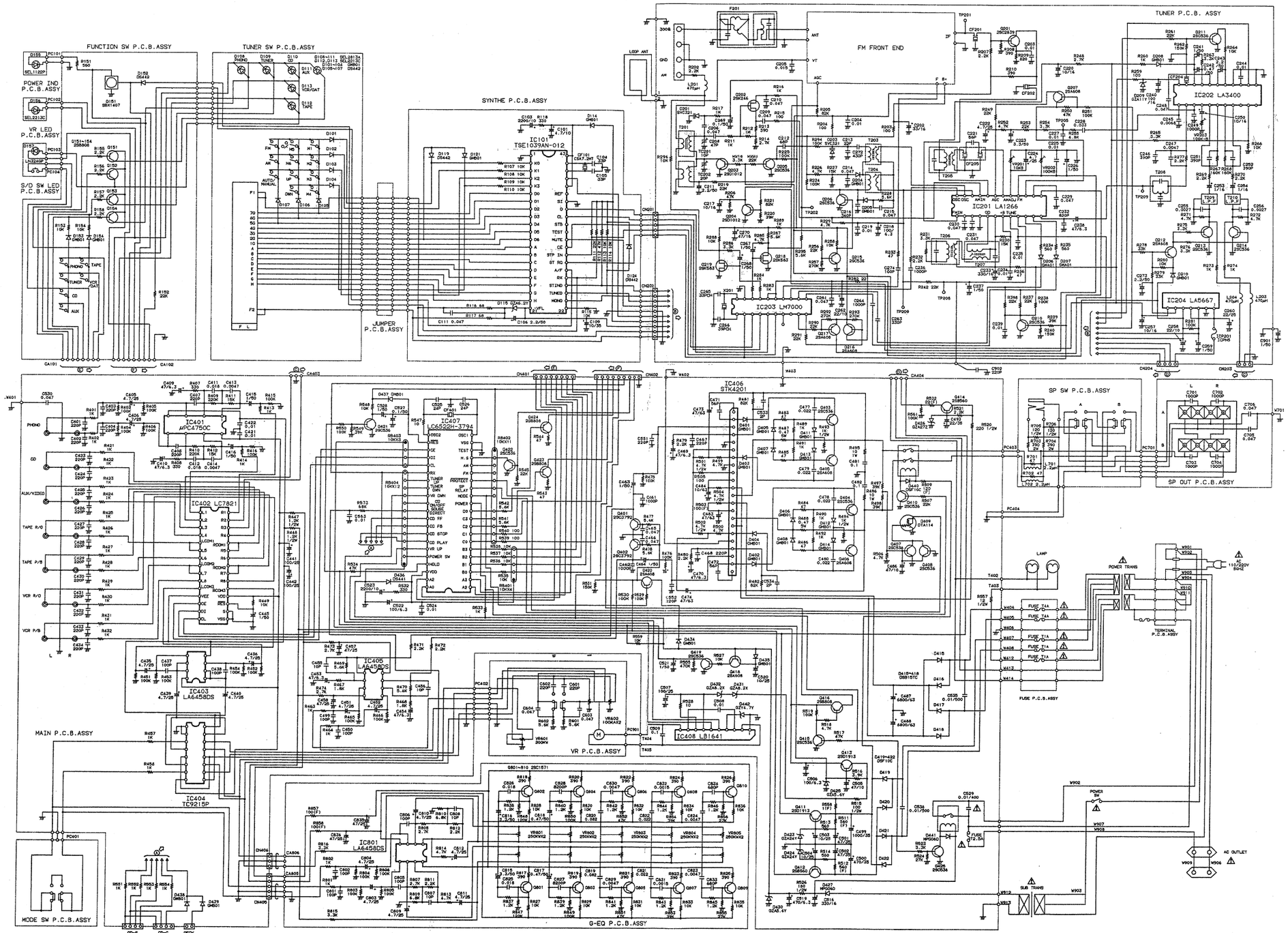


SWITCH DISPLAY PRINTED CIRCUIT BOARD
(BOTTOM VIEW)

POINT TO POINT WIRING DIAGRAM



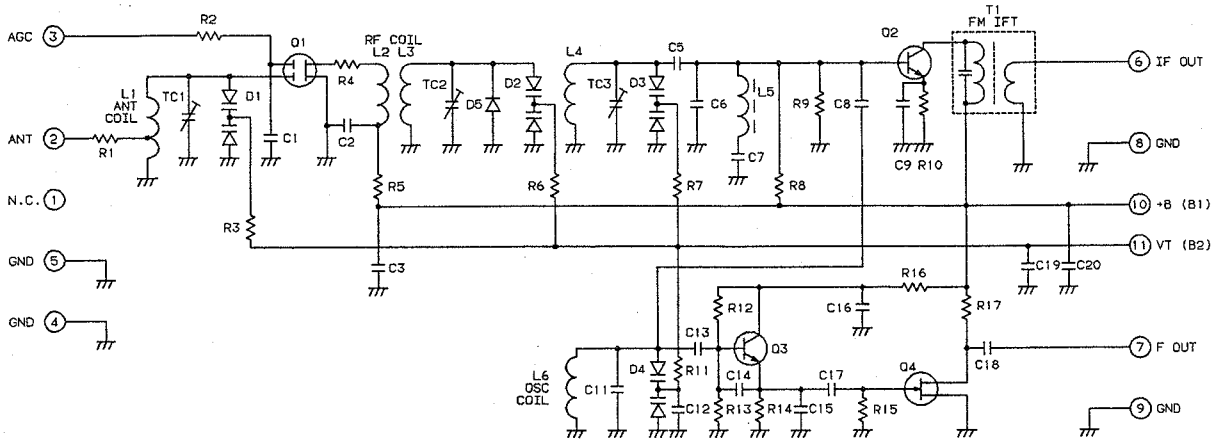
SCHEMATIC DIAGRAM



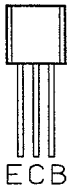
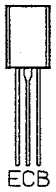
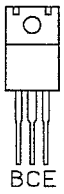
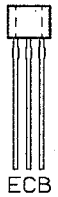
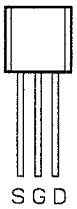
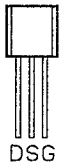
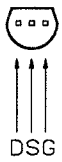
NOTES:

1. All resistors values are indicated in "ohm" (K = 10^3, M = 10^6).
2. All capacitors values are indicated in "μF" (P = 10^{-12}).
3. This is a basic schematic diagram.

FRONT END SCHEMATIC DIAGRAM



IC & TRANSISTOR LEAD IDENTIFICATION

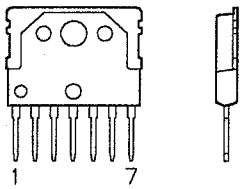
TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA608 2SC1571 2SC3792 2SC536			2SB560		
2SD1913			DTA114 2SA608 2SB808 2SC2839 2SC536 2SD1012		
2SK246			2SK583		

TERMINAL NAME

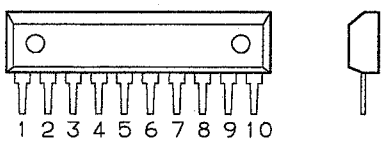
B → BASE
C → COLLECTOR
E → EMITTER

S → SOURCE
G → GATE
D → DRAIN

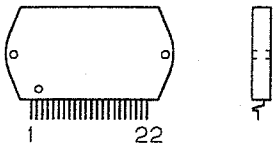
LA5667 FRONT/SIDE VIEWS



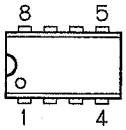
LB1641 FRONT/SIDE VIEWS



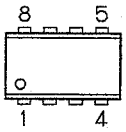
STK4201V-SA FRONT/SIDE VIEWS



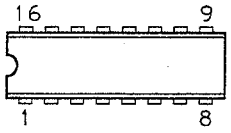
UPC4570C TOP VIEW



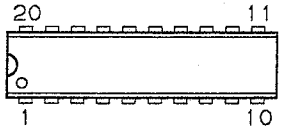
LA6458DS TOP VIEW



TC9215P TOP VIEW

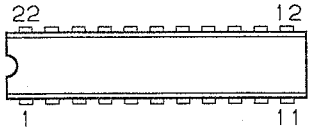


LM7000 TOP VIEW

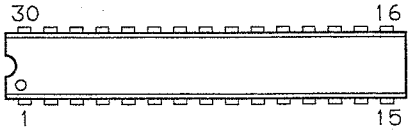


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

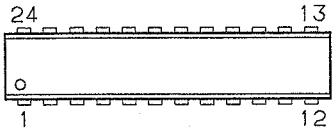
LA3400 TOP VIEW



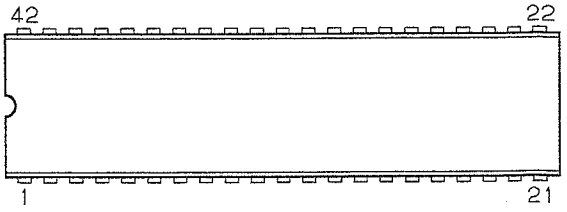
LC7821 TOP VIEW



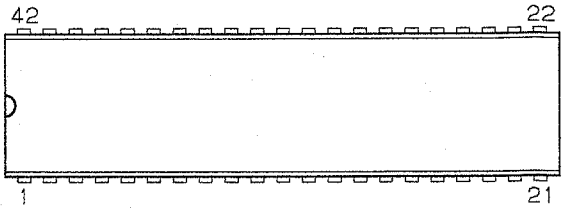
LA1266 TOP VIEW



TSE1039AN-012 TOP VIEW



LC6522H-3794 TOP VIEW



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Sie sparen so wertvolle Zeit. Vielen Dank.

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